

GenCore version 5.1.7  
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OM protein - protein search, using sw model

Run on: April 26, 2006, 13:12:17 ; Search time 0.001 Seconds  
(without alignments)  
288.576 Million cell updates/sec

Title: US-10-718-495-24  
Perfect score: 1151  
Sequence: 1 MGKGDPPKPTGKMSYAFFV.....EEEEDEDEDEDEDDDD 216

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 12 seqs, 1336 residues

Total number of hits satisfying chosen parameters: 12

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 12 summaries

Database : US10718495.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1151	100.0	216	1	US-10-718-495-24 Sequence 24, Appl
2	1045	90.8	211	1	US-10-718-495-25 Sequence 25, Appl
3	902	78.4	205	1	US-10-718-495-27 Sequence 27, Appl
4	875	76.0	188	1	US-10-718-495-26 Sequence 26, Appl
5	361	31.4	80	1	US-10-718-495-28 Sequence 28, Appl
6	350	30.4	86	1	US-10-718-495-30 Sequence 30, Appl
7	343	29.8	80	1	US-10-718-495-29 Sequence 29, Appl
8	287	24.9	54	1	US-10-718-495-43 Sequence 43, Appl
9	268	23.3	54	1	US-10-718-495-45 Sequence 45, Appl
10	263	22.8	54	1	US-10-718-495-44 Sequence 44, Appl
11	254	22.1	54	1	US-10-718-495-47 Sequence 47, Appl
12	249	21.6	54	1	US-10-718-495-46 Sequence 46, Appl

ALIGNMENTS

RESULT 1  
US-10-718-495-24  
; Sequence 24, Application US/10718495  
; GENERAL INFORMATION:  
; APPLICANT: O'Keefe, Theresa L.  
; TITLE OF INVENTION: USE OF HMGB FRAGMENTS AS  
; TITLE OF INVENTION: ANTI-INFLAMMATORY AGENTS  
; FILE REFERENCE: 3258.1009-001  
; CURRENT APPLICATION NUMBER: US/10718,495  
; PRIOR FILING DATE: 2003-11-12  
; PRIOR FILING DATE: 2002-11-20  
; NUMBER OF SEQ ID NOS: 58  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 24  
; LENGTH: 216

16/718,495

```
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-718-495-24

Query Match      100.0%; Score 1151; DB 1; Length 216;
Best Local Similarity 100.0%; Pred. No. 3.6e-17;
Matches 216; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGKGDPPKPTGKMSYAFFVQTCREHKKKHPDASVNFSEFSKCSERWTKMSAKEKGF 60
DB 1 MGKGDPPKPTGKMSYAFFVQTCREHKKKHPDASVNFSEFSKCSERWTKMSAKEKGF 60

QY 61 EDMAKADKARYEREMKTYIPPKGETKKKFDNAPKRLPSAFFLFCSEYRPKIKGEHPGL 120
DB 61 EDMAKADKARYEREMKTYIPPKGETKKKFDNAPKRLPSAFFLFCSEYRPKIKGEHPGL 120

QY 121 SIGDVAKLGLGEMWNNTAADDKQPYEKKAAKLKEKYEKDI AAYRAKGPDAAKKGVVKA EK 180
DB 121 SIGDVAKLGLGEMWNNTAADDKQPYEKKAAKLKEKYEKDI AAYRAKGPDAAKKGVVKA EK 180

QY 181 SKKKEEEDDEDEDEDEDEDEDEDEDEDEDEDEDEDEDE 216
DB 181 SKKKEEEDDEDEDEDEDEDEDEDEDEDEDEDEDEDEDE 216

RESULT 2
US-10-718-495-25
; Sequence 25, Application US/10718495
; GENERAL INFORMATION:
; APPLICANT: O'Keefe, Theresa L.
; TITLE OF INVENTION: USE OF HMGB FRAGMENTS AS
; TITLE OF INVENTION: ANTI-INFLAMMATORY AGENTS
; FILE REFERENCE: 3258.1009-001
; CURRENT APPLICATION NUMBER: US/10718,495
; PRIOR FILING DATE: 2003-11-12
; PRIOR FILING DATE: 2002-11-20
; NUMBER OF SEQ ID NOS: 58
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 25
; LENGTH: 211
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-718-495-25

Query Match      90.8%; Score 1045; DB 1; Length 211;
Best Local Similarity 92.1%; Pred. No. 4.8e-15;
Matches 198; Conservative 5; Mismatches 8; Indels 4; Gaps 1;

QY 1 MGKGDPPKPTGKMSYAFFVQTCREHKKKHPDASVNFSEFSKCSERWTKMSAKEKGF 60
DB 1 MGKGDPPKPTGKMSYAFFVQTCREHKKKHPDASVNFSEFSKCSERWTKMSAKEKGF 60

QY 61 EDMAKADKARYEREMKTYIPPKGETKKKFDNAPKRLPSAFFLFCSEYRPKIKGEHPGL 120
DB 61 EDMAKADKARYEREMKTYIPPKGETKKKFDNAPKRLPSAFFLFCSEYRPKIKGEHPGL 120

QY 121 SIGDVAKLGLGEMWNNTAADDKQPYEKKAAKLKEKYEKDI AAYRAKGPDAAKKGVVKA EK 180
DB 121 SIGDVAKLGLGEMWNNTAADDKQPYEKKAAKLKEKYEKDI AAYRAKGPDAAKKGVVKA EK 180

QY 181 SKKKEEEDDEDEDEDEDEDEDEDEDEDEDEDEDEDEDE 215
DB 181 SKKKEEEDDEDEDEDEDEDEDEDEDEDEDEDEDEDEDE 211

RESULT 3
US-10-718-495-27
; Sequence 27, Application US/10718495
; GENERAL INFORMATION:
; APPLICANT: O'Keefe, Theresa L.
; TITLE OF INVENTION: USE OF HMGB FRAGMENTS AS
; TITLE OF INVENTION: ANTI-INFLAMMATORY AGENTS
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; FILE REFERENCE: 3258.1009-001
; CURRENT APPLICATION NUMBER: US/10/718,495
; PRIOR FILING DATE: 2003-11-12
; PRIOR APPLICATION NUMBER: 60/427,841
; PRIOR FILING DATE: 2002-11-20
; NUMBER OF SEQ ID NOS: 58
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 27
; LENGTH: 205
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-718-495-27

Query Match      78.4%; Score 902; DB 1; Length 205;
Best Local Similarity 84.3%; Pred. No. 3.5e-12;
Matches 172; Conservative 11; Mismatches 21; Indels 0; Gaps 0;

Qy 1 MGKGDPPKPTGKMSSYAFFVQTCREEHKKHHPDASVNFSEFSKCSERWKTMSAKEKGKF 60
Db 1 MDKADPKLGRGEMLSYAFFVQTCREEHKKGNPDASVNFSEFLKKCSETWKTIFAKEKGKF 60

Qy 61 EDMAKADKARYEREMKTYIPPKGETKKKFKDPNAPKRLPSAFFLFCSEYRPKIKGEHPGL 120
Db 61 EDMAKADKAHYEREMKTYIPPKGEKKKFKDPNAPKRPPLAFFLFCSEYRPKIKGEHPGL 120

Qy 121 SIGDVAKKLGEWNNNTAADDQOPYEKKAAKLUKEKYEKDIAAYRAKGPDAAKGGVVAEK 180
Db 121 SIDDVVKKLAGWNNNTAADDQFYEKKAAKLUKEKYKKDIAAYRAKGPNSAKRVRVAEK 180

Qy 181 SKKKKEEEDDEDEDEDEE 204
Db 181 SKKKKEEEDDEDEEENEDDD 204

RESULT 4
US-10-718-495-26
; Sequence 26, Application US/10718495
; GENERAL INFORMATION:
; APPLICANT: O'Keefe, Theresa L.
; TITLE OF INVENTION: USE OF HMGB FRAGMENTS AS
; FILE REFERENCE: 3258.1009-001
; CURRENT APPLICATION NUMBER: US/10/718,495
; CURRENT FILING DATE: 2003-11-12
; PRIOR APPLICATION NUMBER: 60/427,841
; PRIOR FILING DATE: 2002-11-20
; NUMBER OF SEQ ID NOS: 58
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 26
; LENGTH: 188
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-718-495-26

Query Match      76.0%; Score 875; DB 1; Length 188;
Best Local Similarity 89.4%; Pred. No. 1.2e-11;
Matches 168; Conservative 3; Mismatches 17; Indels 0; Gaps 0;

Qy 1 MGKGDPPKPTGKMSSYAFFVQTCREEHKKHHPDASVNFSEFSKCSERWKTMSAKEKGKF 60
Db 1 MGKGDPPKPRGKMSSYAFFVQTCREECKKHHPDASVNFSEFSKCSERWKAWSAKDKGKF 60

Qy 61 EDMAKADKARYEREMKTYIPPKGETKKKFKDPNAPKRLPSAFFLFCSEYRPKIKGEHPGL 120
Db 61 EDMAKVDKDRYEREMKTYIPPKGETKKKFFEDSNAPKRPSPAFFLFCSEYCPKIKGEHPGL 120

Qy 121 SIGDVAKKLGEWNNNTAADDQOPYEKKAAKLUKEKYEKDIAAYRAKGPDAAKGGVVAEK 180
Db 121 PISDVAKKLGEWNNNTFADDKQLEKKAALKLUKEKYKKDTATYRAKGPDAAKGGVVAEK 180

Qy 181 SKKKKEE 188
Db 181 SKKKKEE 188

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RESULT 5
US-10-718-495-28
; Sequence 28, Application US/10718495
; GENERAL INFORMATION:
; APPLICANT: O'Keefe, Theresa L.
; TITLE OF INVENTION: USE OF HMGB FRAGMENTS AS
; FILE REFERENCE: 3258.1009-001
; CURRENT APPLICATION NUMBER: US/10/718,495
; CURRENT FILING DATE: 2003-11-12
; PRIOR APPLICATION NUMBER: 60/427,841
; PRIOR FILING DATE: 2002-11-20
; NUMBER OF SEQ ID NOS: 58
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 28
; LENGTH: 80
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-718-495-28

Query Match      31.4%; Score 361; DB 1; Length 80;
Best Local Similarity 83.8%; Pred. No. 0.25;
Matches 67; Conservative 4; Mismatches 9; Indels 0; Gaps 0;

Qy 1 MGKGDPPKPTGKMSSYAFFVQTCREEHKKHHPDASVNFSEFSKCSERWKTMSAKEKGKF 60
Db 1 MGKGDPPKPRGKMSSCAFFVQTCWEEHKKQYPDASINFSEFSQKCPETWKTITAKEKGKF 60

Qy 61 EDMAKADKARYEREMKTYIP 80
Db 61 EDMPKADKAHYEREMKTYIP 80

RESULT 6
US-10-718-495-30
; Sequence 30, Application US/10718495
; GENERAL INFORMATION:
; APPLICANT: O'Keefe, Theresa L.
; TITLE OF INVENTION: USE OF HMGB FRAGMENTS AS
; FILE REFERENCE: 3258.1009-001
; CURRENT APPLICATION NUMBER: US/10/718,495
; CURRENT FILING DATE: 2003-11-12
; PRIOR APPLICATION NUMBER: 60/427,841
; PRIOR FILING DATE: 2002-11-20
; NUMBER OF SEQ ID NOS: 58
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 30
; LENGTH: 86
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-718-495-30

Query Match      30.4%; Score 350; DB 1; Length 86;
Best Local Similarity 80.2%; Pred. No. 0.41;
Matches 69; Conservative 3; Mismatches 14; Indels 0; Gaps 0;

Qy 1 MGKGDPPKPTGKMSSYAFFVQTCREEHKKHHPDASVNFSEFSKCSERWKTMSAKEKGKF 60
Db 1 MGKGDPPKPRGKMSSYAFFVQTAQEEHKKQLDASVSFSEFSKNCSESWKTMSYKEKGKF 60

Qy 61 EDMAKADKARYEREMKTYIPPKGETK 86
Db 61 EDMAKADKACVEREMKIYPYLKGRQK 86

RESULT 7
US-10-718-495-29
; Sequence 29, Application US/10718495
; GENERAL INFORMATION:
; APPLICANT: O'Keefe, Theresa L.

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; TITLE OF INVENTION: USE OF HMGB FRAGMENTS AS
; TITLE OF INVENTION: ANTI-INFLAMMATORY AGENTS
; FILE REFERENCE: 3258.1009-001
; CURRENT APPLICATION NUMBER: US/10/718,495
; CURRENT FILING DATE: 2003-11-12
; PRIOR APPLICATION NUMBER: 60/427,841
; PRIOR FILING DATE: 2002-11-20
; NUMBER OF SEQ ID NOS: 58
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 29
; LENGTH: 80
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-718-495-29

Query Match      29.8%; Score 343; DB 1; Length 80;
Best Local Similarity 83.8%; Pred. No. 0.57;
Matches 67; Conservative 2; Mismatches 11; Indels 0; Gaps 0;

Qy 8 KPTGKMSYAFVQTCREHHKKHPDASVNFSEFSKKCSRWKMTSAKEKGKFDMAKAD 67
Db 1 KQKGMPSYVFCVQTCPEERKKHPDASVNFSEFSKKCLVRGKMTSAKEKGQFEAMARAD 60

Qy 68 KARYEREMKTYIPPKGETKK 87
Db 61 KARYEREMKTYIPPKGETKK 80

RESULT 8
US-10-718-495-43
; Sequence 43, Application US/10718495
; GENERAL INFORMATION:
; APPLICANT: O'Keefe, Theresa L.
; TITLE OF INVENTION: USE OF HMGB FRAGMENTS AS
; TITLE OF INVENTION: ANTI-INFLAMMATORY AGENTS
; FILE REFERENCE: 3258.1009-001
; CURRENT APPLICATION NUMBER: US/10/718,495
; CURRENT FILING DATE: 2003-11-12
; PRIOR APPLICATION NUMBER: 60/427,841
; PRIOR FILING DATE: 2002-11-20
; NUMBER OF SEQ ID NOS: 58
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 43
; LENGTH: 54
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-718-495-43

Query Match      24.9%; Score 287; DB 1; Length 54;
Best Local Similarity 100.0%; Pred. No. 5;
Matches 54; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 32 PDASVNFSEFSKKCSRWKMTSAKEKGKFDMAKADKARYEREMKTYIPPKGET 85
Db 1 PDASVNFSEFSKKCSRWKMTSAKEKGKFDMAKADKARYEREMKTYIPPKGET 54

RESULT 9
US-10-718-495-45
; Sequence 45, Application US/10718495
; GENERAL INFORMATION:
; APPLICANT: O'Keefe, Theresa L.
; TITLE OF INVENTION: USE OF HMGB FRAGMENTS AS
; TITLE OF INVENTION: ANTI-INFLAMMATORY AGENTS
; FILE REFERENCE: 3258.1009-001
; CURRENT APPLICATION NUMBER: US/10/718,495
; CURRENT FILING DATE: 2003-11-12
; PRIOR APPLICATION NUMBER: 60/427,841
; PRIOR FILING DATE: 2002-11-20
; NUMBER OF SEQ ID NOS: 58
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 45
; LENGTH: 54

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Query Match      92.4%; Score 1045; DB 1; Length 216;
Best Local Similarity 92.1%; Pred. No. 2.6e-12;
Matches 198; Conservative 5; Mismatches 8; Indels 4; Gaps 1;

Qy 1 MGKGDPPKPRGKMSYAFFVQTCREHKKHSDASVNFSEFSNKCSEHWKTSKAKGKF 60
Db 1 MGKGDPPKPTGKMSYAFFVQTCREHKKHSDASVNFSEFSNKCSEHWKTSKAKGKF 60

Qy 61 EDMAKADKTHYEROMKTYIPPKGTTKKFKDPNAPKPPSAFFLFCSEYHPKIKGEHPGL 120
Db 61 EDMAKADKARYEREMKTYIPPKGTTKKFKDPNAPKPPSAFFLFCSEYHPKIKGEHPGL 120

Qy 121 SIGDVAKLGLGEMMNNTAADKQGEKKAALKKEKYEKIDIAAYQAKGPEAAKKGWVKAKE 180
Db 121 SIGDVAKLGLGEMMNNTAADKQGEKKAALKKEKYEKIDIAAYRAKGPDAKKGWVKAKE 180

Qy 181 SKKKKEEEDDEDEDEDEDEDEDEDEDEDEDEDEDEDEDEDEDEDEDEDEDEDEDEDE 211
Db 181 SKKKKEEEDDEDEDEDEDEDEDEDEDEDEDEDEDEDEDEDEDEDEDEDEDEDEDEDE 215

RESULT 3
US-10-718-495-27
; Sequence 27, Application US/10718495
; GENERAL INFORMATION:
; APPLICANT: O'Keefe, Theresa L.
; TITLE OF INVENTION: USE OF HMGB FRAGMENTS AS
; TITLE OF INVENTION: ANTI-INFLAMMATORY AGENTS
; FILE REFERENCE: 3258.1009-001
; CURRENT APPLICATION NUMBER: US/10718,495
; CURRENT FILING DATE: 2003-11-12
; PRIOR APPLICATION NUMBER: 60/427,841
; PRIOR FILING DATE: 2002-11-20
; NUMBER OF SEQ ID NOS: 58
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 27
; LENGTH: 205
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-718-495-27

Query Match      78.2%; Score 884; DB 1; Length 205;
Best Local Similarity 81.5%; Pred. No. 1.1e-09;
Matches 167; Conservative 14; Mismatches 24; Indels 0; Gaps 0;

Qy 1 MGKGDPPKPRGKMSYAFFVQTCREHKKHSDASVNFSEFSNKCSEHWKTSKAKGKF 60
Db 1 MDKADPKKJRGEMLSYAFFVQTCREHKKHSDASVNFSEFSNKCSEHWKTSKAKGKF 60

Qy 61 EDMAKADKTHYEROMKTYIPPKGTTKKFKDPNAPKPPSAFFLFCSEYHPKIKGEHPGL 120
Db 61 EDMAKADKARYEREMKTYIPPKGTTKKFKDPNAPKPPSAFFLFCSEYHPKIKGEHPGL 120

Qy 121 SIGDVAKLGLGEMMNNTAADKQGEKKAALKKEKYEKIDIAAYQAKGPEAAKKGWVKAKE 180
Db 121 SIDDVKKLAGMWNNTAADKQFEYKKAALKKEKYEKIDIAAYRAKGPNSAKKRWVKAKE 180

Qy 181 SKKKKEEEDDEDEDEDEDEDEDEDEDEDEDEDEDEDEDEDEDEDEDEDEDEDEDEDE 205
Db 181 SKKKKEEEDDEDEDEDEDEDEDEDEDEDEDEDEDEDEDEDEDEDEDEDEDEDEDEDE 205

RESULT 4
US-10-718-495-26
; Sequence 26, Application US/10718495
; GENERAL INFORMATION:
; APPLICANT: O'Keefe, Theresa L.
; TITLE OF INVENTION: USE OF HMGB FRAGMENTS AS
; TITLE OF INVENTION: ANTI-INFLAMMATORY AGENTS
; FILE REFERENCE: 3258.1009-001
; CURRENT APPLICATION NUMBER: US/10718,495
; CURRENT FILING DATE: 2003-11-12
```

```
; PRIOR APPLICATION NUMBER: 60/427,841
; PRIOR FILING DATE: 2002-11-20
; NUMBER OF SEQ ID NOS: 58
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 26
; LENGTH: 188
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-718-495-26

Query Match      76.2%; Score 862; DB 1; Length 188;
Best Local Similarity 87.2%; Pred. No. 2.6e-09;
Matches 164; Conservative 6; Mismatches 18; Indels 0; Gaps 0;

Qy 1 MGKGDPPKPRGKMSYAFFVQTCREHKKHSDASVNFSEFSNKCSEHWKTSKAKGKF 60
Db 1 MGKGDPPKPRGKMSYAFFVQTCREHKKHSDASVNFSEFSNKCSEHWKTSKAKGKF 60

Qy 61 EDMAKADKTHYEROMKTYIPPKGTTKKFKDPNAPKPPSAFFLFCSEYHPKIKGEHPGL 120
Db 61 EDMAKADKARYEREMKTYIPPKGTTKKFKDPNAPKPPSAFFLFCSEYHPKIKGEHPGL 120

Qy 121 SIGDVAKLGLGEMMNNTAADKQGEKKAALKKEKYEKIDIAAYQAKGPEAAKKGWVKAKE 180
Db 121 PISDVAKLGLGEMMNNTAADKQGEKKAALKKEKYEKIDIAAYRAKGPDAKKGWVKAKE 180

Qy 181 SKKKKEE 188
Db 181 SKKKKEE 188

RESULT 5
US-10-718-495-28
; Sequence 28, Application US/10718495
; GENERAL INFORMATION:
; APPLICANT: O'Keefe, Theresa L.
; TITLE OF INVENTION: USE OF HMGB FRAGMENTS AS
; TITLE OF INVENTION: ANTI-INFLAMMATORY AGENTS
; FILE REFERENCE: 3258.1009-001
; CURRENT APPLICATION NUMBER: US/10718,495
; CURRENT FILING DATE: 2003-11-12
; PRIOR APPLICATION NUMBER: 60/427,841
; PRIOR FILING DATE: 2002-11-20
; NUMBER OF SEQ ID NOS: 58
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 28
; LENGTH: 80
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-718-495-28

Query Match      31.7%; Score 359; DB 1; Length 80;
Best Local Similarity 82.5%; Pred. No. 0.46;
Matches 66; Conservative 4; Mismatches 10; Indels 0; Gaps 0;

Qy 1 MGKGDPPKPRGKMSYAFFVQTCREHKKHSDASVNFSEFSNKCSEHWKTSKAKGKF 60
Db 1 MGKGDPPKPRGKMSYAFFVQTCREHKKHSDASVNFSEFSNKCSEHWKTSKAKGKF 60

Qy 61 EDMAKADKTHYEROMKTYIP 80
Db 61 EDMPKADKARYEREMKTYIP 80

RESULT 6
US-10-718-495-30
; Sequence 30, Application US/10718495
; GENERAL INFORMATION:
; APPLICANT: O'Keefe, Theresa L.
; TITLE OF INVENTION: USE OF HMGB FRAGMENTS AS
; TITLE OF INVENTION: ANTI-INFLAMMATORY AGENTS
; FILE REFERENCE: 3258.1009-001
; CURRENT APPLICATION NUMBER: US/10718,495
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; Sequence 47, Application US/10718495
; GENERAL INFORMATION:
; APPLICANT: O'Keefe, Theresa L.
; TITLE OF INVENTION: USE OF HMGB FRAGMENTS AS
; FILE REFERENCE: 3258.1009-001
; CURRENT APPLICATION NUMBER: US/10718,495
; PRIOR FILING DATE: 2003-11-12
; PRIOR FILING DATE: 2002-11-20
; NUMBER OF SEQ ID NOS: 58
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 47
; LENGTH: 54
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-718-495-47

Query Match      21.8%; Score 247; DB 1; Length 54;
Best Local Similarity 84.6%; Pred. No. 7.9;
Matches 45; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

QY 33 DASVNFSEFNKCSERWKTSAKEKGKGFEDMAKADKTHYEROMKTYIPPKGET 85
Db 2 DASVNFSEFNKCSERWKTSAKEKGKGFEDMAKADKTHYEROMKTYIPPKGET 54

RESULT 12
US-10-718-495-46
; Sequence 46, Application US/10718495
; GENERAL INFORMATION:
; APPLICANT: O'Keefe, Theresa L.
; TITLE OF INVENTION: USE OF HMGB FRAGMENTS AS
; FILE REFERENCE: 3258.1009-001
; CURRENT APPLICATION NUMBER: US/10718,495
; PRIOR FILING DATE: 2003-11-12
; PRIOR FILING DATE: 2002-11-20
; NUMBER OF SEQ ID NOS: 58
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 46
; LENGTH: 54
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-718-495-46

Query Match      21.0%; Score 238; DB 1; Length 54;
Best Local Similarity 84.6%; Pred. No. 8;
Matches 44; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

QY 33 DASVNFSEFNKCSERWKTSAKEKGKGFEDMAKADKTHYEROMKTYIPPKGE 84
Db 2 DASVNFSEFNKCSERWKTSAKEKGKGFEDMAKADKTHYEROMKTYIPPKGE 53

Search completed: April 26, 2006, 13:12:18
Job time : 0.0833333 secs

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OM protein - protein search, using sw model
Run on: April 26, 2006, 13:12:17 ; Search time 0.001 Seconds
(without alignments)
251.168 Million cell updates/sec

Title: US-10-718-495-26
Perfect score: 1008
Sequence: 1 MCKGDPKPKRGKMSYAFV...DAAKGVWAENSKKKKEE 188
```

```
Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 12 seqs, 1336 residues

Total number of hits satisfying chosen parameters: 12

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 12 summaries

Database : US10718495.pep.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No. Score Match Length DB ID Description
-----
1 1008 100.0 188 1 US-10-718-495-26 Sequence 26, Appl
2 875 86.8 216 1 US-10-718-495-24 Sequence 24, Appl
3 862 85.5 211 1 US-10-718-495-25 Sequence 25, Appl
4 777 77.1 205 1 US-10-718-495-27 Sequence 27, Appl
5 338 33.5 80 1 US-10-718-495-28 Sequence 28, Appl
6 328 32.5 80 1 US-10-718-495-29 Sequence 29, Appl
7 327 32.4 86 1 US-10-718-495-30 Sequence 30, Appl
8 274 27.2 54 1 US-10-718-495-45 Sequence 45, Appl
9 269 26.7 54 1 US-10-718-495-43 Sequence 43, Appl
10 250 24.8 54 1 US-10-718-495-44 Sequence 44, Appl
11 236 23.4 54 1 US-10-718-495-47 Sequence 47, Appl
12 231 22.9 54 1 US-10-718-495-46 Sequence 46, Appl

ALIGNMENTS

RESULT 1
US-10-718-495-26
; Sequence 26, Application US/10718495
; GENERAL INFORMATION:
; APPLICANT: O'Keefe, Theresa L.
; TITLE OF INVENTION: USE OF HMGB FRAGMENTS AS
; FILE REFERENCE: 3258.1009-001
; CURRENT APPLICATION NUMBER: US/10718,495
; CURRENT FILING DATE: 2003-11-12
; PRIOR FILING DATE: 2002-11-20
; NUMBER OF SEQ ID NOS: 58
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 26
; LENGTH: 188
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-718-495-26

Query Match      100.0%; Score 1008; DB 1; Length 188;
Best Local Similarity 100.0%; Pred. No. 1.3e-10;
Matches 188; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MCKGDPKPKRGKMSYAFVQTCRECKKKHPDASVNFSEFNKCSERWKAWSAKDKGKF 60
Db 1 MCKGDPKPKRGKMSYAFVQTCRECKKKHPDASVNFSEFNKCSERWKAWSAKDKGKF 60

QY 61 EDMAKVDKDRYEREMKTYIPPKGETKKKFDSDNAPKRPSPSAFLLCSEYCPKIKGEHPGL 120
Db 61 EDMAKVDKDRYEREMKTYIPPKGETKKKFDSDNAPKRPSPSAFLLCSEYCPKIKGEHPGL 120
```

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Qy 121 PISDVAKKLVEWMNNTFADDKQKCEKKAALKKYYKKDTATYRAKGPDAAKGGVWKAEK 180
Db 121 PISDVAKKLVEWMNNTFADDKQKCEKKAALKKYYKKDTATYRAKGPDAAKGGVWKAEK 180
Qy 181 SKKKKEEE 188
Db 181 SKKKKEEE 188

RESULT 2
US-10-718-495-24
; Sequence 24, Application US/10718495
; GENERAL INFORMATION:
; APPLICANT: O'Keefe, Theresa L.
; TITLE OF INVENTION: USE OF HMGB FRAGMENTS AS
; FILE REFERENCE: 3258.1009-001
; CURRENT APPLICATION NUMBER: US/10/718,495
; CURRENT FILING DATE: 2003-11-12
; PRIOR APPLICATION NUMBER: 60/427,841
; PRIOR FILING DATE: 2002-11-20
; NUMBER OF SEQ ID NOS: 58
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 24
; LENGTH: 216
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-718-495-24

Query Match 86.8%; Score 875; DB 1; Length 216;
Best Local Similarity 89.4%; Pred. No. 1.2e-08;
Matches 168; Conservative 3; Mismatches 17; Indels 0; Gaps 0;

Qy 1 MGKGDPPKPRGKMSSYAFFVQTCREECKKHDPDASVNFSEFSKKCSERWKAAMKDKGKF 60
Db 1 MGKGDPPKPTGKMSSYAFFVQTCREECKKHDPDASVNFSEFSKKCSERWKAAMKDKGKF 60
Qy 61 EDMAKVDKDRYEREMKTYIPPKGETKKKFPEDSNAPKPPSAFLFCSEYCPKIKGEHPGL 120
Db 61 EDMAKADKARYEREMKTYIPPKGETKKKFPDAPNAPKPLPSAFLFCSEYRPKIKGEHPGL 120
Qy 121 PISDVAKKLVEWMNNTFADDKQKCEKKAALKKYYKKDTATYRAKGPDAAKGGVWKAEK 180
Db 121 SIGDVAKKLGEWMNNTAADDKQPYEKKAAKLEKYEKDIAYRAKGPDAAKGGVWKAEK 180
Qy 181 SKKKKEEE 188
Db 181 SKKKKEEE 188

RESULT 3
US-10-718-495-25
; Sequence 25, Application US/10718495
; GENERAL INFORMATION:
; APPLICANT: O'Keefe, Theresa L.
; TITLE OF INVENTION: USE OF HMGB FRAGMENTS AS
; FILE REFERENCE: 3258.1009-001
; CURRENT APPLICATION NUMBER: US/10/718,495
; CURRENT FILING DATE: 2003-11-12
; PRIOR APPLICATION NUMBER: 60/427,841
; PRIOR FILING DATE: 2002-11-20
; NUMBER OF SEQ ID NOS: 58
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 25
; LENGTH: 211
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-718-495-25

Query Match 85.5%; Score 862; DB 1; Length 211;
Best Local Similarity 87.2%; Pred. No. 1.9e-08;

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Matches 164; Conservative 6; Mismatches 18; Indels 0; Gaps 0;

Qy 1 MGKGDPPKPRGKMSSYAFFVQTCREECKKHDPDASVNFSEFSKKCSERWKAAMKDKGKF 60
Db 1 MGKGDPPKPRGKMSSYAFFVQTCREECKKHDPDASVNFSEFSKKCSERWKAAMKDKGKF 60
Qy 61 EDMAKVDKDRYEREMKTYIPPKGETKKKFPEDSNAPKPPSAFLFCSEYCPKIKGEHPGL 120
Db 61 EDMAKADKTHYERQMKTYYIPPKGETKKKFPDAPNAPKPPSAFLFCSEYRPKIKGEHPGL 120
Qy 121 PISDVAKKLVEWMNNTFADDKQKCEKKAALKKYYKKDTATYRAKGPDAAKGGVWKAEK 180
Db 121 SIGDVAKKLGEWMNNTAADDKQPYEKKAAKLEKYEKDIAYRAKGPDAAKGGVWKAEK 180
Qy 181 SKKKKEEE 188
Db 181 SKKKKEEE 188

RESULT 4
US-10-718-495-27
; Sequence 27, Application US/10718495
; GENERAL INFORMATION:
; APPLICANT: O'Keefe, Theresa L.
; TITLE OF INVENTION: USE OF HMGB FRAGMENTS AS
; FILE REFERENCE: 3258.1009-001
; CURRENT APPLICATION NUMBER: US/10/718,495
; CURRENT FILING DATE: 2003-11-12
; PRIOR APPLICATION NUMBER: 60/427,841
; PRIOR FILING DATE: 2002-11-20
; NUMBER OF SEQ ID NOS: 58
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 27
; LENGTH: 205
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-718-495-27

Query Match 77.1%; Score 777; DB 1; Length 205;
Best Local Similarity 79.8%; Pred. No. 3.5e-07;
Matches 150; Conservative 8; Mismatches 30; Indels 0; Gaps 0;

Qy 1 MGKGDPPKPRGKMSSYAFFVQTCREECKKHDPDASVNFSEFSKKCSERWKAAMKDKGKF 60
Db 1 MDRADPPKLRGEMLSYAFFVQTCQEEHKKXNPDAVKFSEBFLKCCSETWKTIFAKEKGF 60
Qy 61 EDMAKVDKDRYEREMKTYIPPKGETKKKFPEDSNAPKPPSAFLFCSEYCPKIKGEHPGL 120
Db 61 EDMAKADKARYEREMKTYIPPKGETKKKFPDAPNAPKPPSAFLFCSEYRPKIKGEHPGL 120
Qy 121 PISDVAKKLVEWMNNTFADDKQKCEKKAALKKYYKKDTATYRAKGPDAAKGGVWKAEK 180
Db 121 SIDDVVKLAGMWNNTAADDKQFYEKKAAKLEKYEKDIAYRAKGPDAAKGGVWKAEK 180
Qy 181 SKKKKEEE 188
Db 181 SKKKKEEE 188

RESULT 5
US-10-718-495-28
; Sequence 28, Application US/10718495
; GENERAL INFORMATION:
; APPLICANT: O'Keefe, Theresa L.
; TITLE OF INVENTION: USE OF HMGB FRAGMENTS AS
; FILE REFERENCE: 3258.1009-001
; CURRENT APPLICATION NUMBER: US/10/718,495
; CURRENT FILING DATE: 2003-11-12
; PRIOR APPLICATION NUMBER: 60/427,841
; PRIOR FILING DATE: 2002-11-20
; NUMBER OF SEQ ID NOS: 58

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; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 28
; LENGTH: 80
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-718-495-28

Query Match      33.5%; Score 338; DB 1; Length 80;
Best Local Similarity 78.8%; Pred. No. 1.1;
Matches 63; Conservative 5; Mismatches 12; Indels 0; Gaps 0;

QY   1 MGKGDPKPRGKMSSYAFFVQTCTRECKKKHDPDASVNFSEFSKCSERWKAMSAKDKGKF 60
Db   1 MGKGDPKPRGKMSSCAFFVQTCEHHKKQLDASVSFSEFSKNCSRWTMSVKKGKF 60

QY   61 EDMAKVDDRYEREMKTYIPPGKETK 86
Db   61 EDMKADKAHYEREMKTYIP 80

RESULT 6
US-10-718-495-29
; Sequence 29, Application US/10718495
; GENERAL INFORMATION: Theresa L.
; APPLICANT: O'Keefe, Theresa L.
; TITLE OF INVENTION: USE OF HMGB FRAGMENTS AS
; TITLE OF INVENTION: ANTI-INFLAMMATORY AGENTS
; FILE REFERENCE: 3258.1009-001
; CURRENT APPLICATION NUMBER: US/10/718,495
; CURRENT FILING DATE: 2003-11-12
; PRIOR APPLICATION NUMBER: 60/427,841
; PRIOR FILING DATE: 2002-11-20
; NUMBER OF SEQ ID NOS: 58
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 29
; LENGTH: 80
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-718-495-29

Query Match      32.5%; Score 328; DB 1; Length 80;
Best Local Similarity 80.0%; Pred. No. 1.5;
Matches 64; Conservative 3; Mismatches 13; Indels 0; Gaps 0;

QY   8 KPRGMSSYAFFVQTCTRECKKKHDPDASVNFSEFSKCSERWKAMSAKDKGKFEDMAKVD 67
Db   1 KQGMPSIVFCVQCPEERKKKHDPDASVNFSEFSKCLVRCKTMSAKEKGQFENARAD 60

QY   68 KORYEREMKTYIPPGKETKK 87
Db   61 KARYEREMKTYIPPGKETKK 80

RESULT 7
US-10-718-495-30
; Sequence 30, Application US/10718495
; GENERAL INFORMATION: Theresa L.
; APPLICANT: O'Keefe, Theresa L.
; TITLE OF INVENTION: USE OF HMGB FRAGMENTS AS
; TITLE OF INVENTION: ANTI-INFLAMMATORY AGENTS
; FILE REFERENCE: 3258.1009-001
; CURRENT APPLICATION NUMBER: US/10/718,495
; CURRENT FILING DATE: 2003-11-12
; PRIOR APPLICATION NUMBER: 60/427,841
; PRIOR FILING DATE: 2002-11-20
; NUMBER OF SEQ ID NOS: 58
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 30
; LENGTH: 86
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-718-495-30

Query Match      32.4%; Score 327; DB 1; Length 86;
Best Local Similarity 75.6%; Pred. No. 1.6;
Matches 65; Conservative 4; Mismatches 17; Indels 0; Gaps 0;

QY   1 MGKGDPKPRGKMSSYAFFVQTCTRECKKKHDPDASVNFSEFSKCSERWKAMSAKDKGKF 60
Db   1 MGKRDPKPGRKMSSYAFFVQTAEHEHKKQLDASVSFSEFSKNCSRWTMSVKKGKF 60

QY   61 EDMAKVDDRYEREMKTYIPPGKETK 86
Db   61 EDMAKADACAYEREMKTYIPYLKGRQK 86

RESULT 8
US-10-718-495-45
; Sequence 45, Application US/10718495
; GENERAL INFORMATION: Theresa L.
; APPLICANT: O'Keefe, Theresa L.
; TITLE OF INVENTION: USE OF HMGB FRAGMENTS AS
; TITLE OF INVENTION: ANTI-INFLAMMATORY AGENTS
; FILE REFERENCE: 3258.1009-001
; CURRENT APPLICATION NUMBER: US/10/718,495
; CURRENT FILING DATE: 2003-11-12
; PRIOR APPLICATION NUMBER: 60/427,841
; PRIOR FILING DATE: 2002-11-20
; NUMBER OF SEQ ID NOS: 58
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 45
; LENGTH: 54
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-718-495-45

Query Match      27.2%; Score 274; DB 1; Length 54;
Best Local Similarity 96.3%; Pred. No. 5.9;
Matches 52; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY   32 PDASVNFSEFSKCSERWKAMSAKDKGKFEDMAKVDKDRYEREMKTYIPPGKET 85
Db   1 PDASVNFSEFSKCSERWKAMSAKDKGKFEDMAKVDKADYEREMKTYIPPGKET 54

RESULT 9
US-10-718-495-43
; Sequence 43, Application US/10718495
; GENERAL INFORMATION: Theresa L.
; APPLICANT: O'Keefe, Theresa L.
; TITLE OF INVENTION: USE OF HMGB FRAGMENTS AS
; TITLE OF INVENTION: ANTI-INFLAMMATORY AGENTS
; FILE REFERENCE: 3258.1009-001
; CURRENT APPLICATION NUMBER: US/10/718,495
; CURRENT FILING DATE: 2003-11-12
; PRIOR APPLICATION NUMBER: 60/427,841
; PRIOR FILING DATE: 2002-11-20
; NUMBER OF SEQ ID NOS: 58
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 43
; LENGTH: 54
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-718-495-43

Query Match      26.7%; Score 269; DB 1; Length 54;
Best Local Similarity 92.6%; Pred. No. 6.4;
Matches 50; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY   32 PDASVNFSEFSKCSERWKAMSAKDKGKFEDMAKVDKDRYEREMKTYIPPGKET 85
Db   1 PDASVNFSEFSKCSERWKTMSAKEKGKFEDMAKADKARYEREMKTYIPPGKET 54

RESULT 10
US-10-718-495-44

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; ORGANISM: Homo sapiens
US-10-718-495-46

Query Match      22.9%; Score 231; DB 1; Length 54;
Best Local Similarity 81.1%; Pred. No. 8;
Matches 43; Conservative 2; Mismatches 8; Indels 0; Gaps 0;

Qy 32 PDASVNFSPSKCSERWKAWSAKDKGKGFEDMAKVQKDRYEREMKTYIPKGE 84
Db 1 PDASVNFSPSKCSERWKAWSAKDKGKGFEDMAKVQKDRYEREMKTYIPKGE 53

Search completed: April 26, 2006, 13:12:18
Job time : 0.0833333 secs

GenCore version 5.1.7
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OM protein - protein search, using sw model

Run on: April 26, 2006, 13:12:17 ; Search time 0.001 Seconds
(without alignments)
273.880 Million cell updates/sec

Title: US-10-718-495-27
Perfect score: 1086
Sequence: 1 MDKADPKLRLGEMLSYAFFV.....ESEEDEDEQEENEEDDDK 205

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 12 seqs, 1336 residues

Total number of hits satisfying chosen parameters: 12

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 12 summaries

Database : US10718495.pep:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No. Score Query Match Length DB ID Description
-----
1 1086 100.0 205 1 US-10-718-495-27 Sequence 27, Appl
2 902 83.1 216 1 US-10-718-495-24 Sequence 24, Appl
3 884 81.4 211 1 US-10-718-495-25 Sequence 25, Appl
4 777 71.5 188 1 US-10-718-495-26 Sequence 26, Appl
5 335 30.8 80 1 US-10-718-495-28 Sequence 28, Appl
6 313 28.8 86 1 US-10-718-495-30 Sequence 30, Appl
7 297 27.3 80 1 US-10-718-495-29 Sequence 29, Appl
8 290 26.7 54 1 US-10-718-495-46 Sequence 46, Appl
9 253 23.3 54 1 US-10-718-495-47 Sequence 47, Appl
10 249 22.9 54 1 US-10-718-495-43 Sequence 43, Appl
11 238 21.9 54 1 US-10-718-495-44 Sequence 44, Appl
12 236 21.7 54 1 US-10-718-495-45 Sequence 45, Appl

ALIGNMENTS

RESULT 1
US-10-718-495-27

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; Sequence 27, Application US/10718495
; GENERAL INFORMATION:
; APPLICANT: O'Keefe, Theresa L.
; TITLE OF INVENTION: USE OF HMGB FRAGMENTS AS
; TITLE OF INVENTION: ANTI-INFLAMMATORY AGENTS
; FILE REFERENCE: 3258.1009-001
; CURRENT APPLICATION NUMBER: US/10718,495
; CURRENT FILING DATE: 2003-11-12
; PRIOR APPLICATION NUMBER: 60/427,841
; PRIOR FILING DATE: 2002-11-20
; NUMBER OF SEQ ID NOS: 58
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 27
; LENGTH: 205
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-718-495-27

Query Match      100.0%; Score 1086; DB 1; Length 205;
Best Local Similarity 100.0%; Pred. No. 5.9e-12;
Matches 205; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MDKADPKKLGEMLSYAFFVQTCQBEHKKKNDASVKFSEFLKCCSETWKTIFAKEKGKF 60
Db 1 MDKADPKKLGEMLSYAFFVQTCQBEHKKKNDASVKFSEFLKCCSETWKTIFAKEKGKF 60
QY 61 EDMAKADKAHYEREMKTYIPPKGKKKFDNAPKRPPLAFLFCSEYRPKIKGHPGL 120
Db 61 EDMAKADKAHYEREMKTYIPPKGKKKFDNAPKRPPLAFLFCSEYRPKIKGHPGL 120
QY 121 SIDDVVVKLAGMNNNTAAADKQFYEKKAALKKEKYKDDIAAYRAKGPNSAKKRVVKAEK 180
Db 121 SIDDVVVKLAGMNNNTAAADKQFYEKKAALKKEKYKDDIAAYRAKGPNSAKKRVVKAEK 180
QY 181 SKKKKEEEDDEDEQEEENEEDDDK 205
Db 181 SKKKKEEEDDEDEQEEENEEDDDK 205

RESULT 2
US-10-718-495-24
; Sequence 24, Application US/10718495
; GENERAL INFORMATION:
; APPLICANT: O'Keefe, Theresa L.
; TITLE OF INVENTION: USE OF HMGB FRAGMENTS AS
; TITLE OF INVENTION: ANTI-INFLAMMATORY AGENTS
; FILE REFERENCE: 3258.1009-001
; CURRENT APPLICATION NUMBER: US/10718,495
; CURRENT FILING DATE: 2003-11-12
; PRIOR APPLICATION NUMBER: 60/427,841
; PRIOR FILING DATE: 2002-11-20
; NUMBER OF SEQ ID NOS: 58
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 24
; LENGTH: 216
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-718-495-24

Query Match      83.1%; Score 902; DB 1; Length 216;
Best Local Similarity 84.3%; Pred. No. 3.5e-09;
Matches 172; Conservative 11; Mismatches 21; Indels 0; Gaps 0;

QY 1 MDKADPKKLGEMLSYAFFVQTCQBEHKKKNDASVKFSEFLKCCSETWKTIFAKEKGKF 60
Db 1 MGKGDPKPKTGKSSYAFFVQTCREHKKKHPDASVNFSEFSSKCSERWKTMSAKEKGKF 60
QY 61 EDMAKADKAHYEREMKTYIPPKGKKKFDNAPKRPPLAFLFCSEYRPKIKGHPGL 120
Db 61 EDMAKADKAHYEREMKTYIPPKGKKKFDNAPKRPPLAFLFCSEYRPKIKGHPGL 120
QY 121 SIDDVVVKLAGMNNNTAAADKQFYEKKAALKKEKYKDDIAAYRAKGPNSAKKRVVKAEK 180
Db 121 SIDDVVVKLAGMNNNTAAADKQFYEKKAALKKEKYKDDIAAYRAKGPNSAKKRVVKAEK 180

; Sequence 25, Application US/10718495
; GENERAL INFORMATION:
; APPLICANT: O'Keefe, Theresa L.
; TITLE OF INVENTION: USE OF HMGB FRAGMENTS AS
; TITLE OF INVENTION: ANTI-INFLAMMATORY AGENTS
; FILE REFERENCE: 3258.1009-001
; CURRENT APPLICATION NUMBER: US/10718,495
; CURRENT FILING DATE: 2003-11-12
; PRIOR APPLICATION NUMBER: 60/427,841
; PRIOR FILING DATE: 2002-11-20
; NUMBER OF SEQ ID NOS: 58
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 25
; LENGTH: 211
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-718-495-25

Query Match      81.4%; Score 884; DB 1; Length 211;
Best Local Similarity 81.5%; Pred. No. 6.6e-09;
Matches 167; Conservative 14; Mismatches 24; Indels 0; Gaps 0;

QY 1 MDKADPKKLGEMLSYAFFVQTCQBEHKKKNDASVKFSEFLKCCSETWKTIFAKEKGKF 60
Db 1 MGKGDPKPKTGKSSYAFFVQTCREHKKKHPDASVNFSEFSSKCSERWKTMSAKEKGKF 60
QY 61 EDMAKADKAHYEREMKTYIPPKGKKKFDNAPKRPPLAFLFCSEYRPKIKGHPGL 120
Db 61 EDMAKADKAHYEREMKTYIPPKGKKKFDNAPKRPPLAFLFCSEYRPKIKGHPGL 120
QY 121 SIDDVVVKLAGMNNNTAAADKQFYEKKAALKKEKYKDDIAAYRAKGPNSAKKRVVKAEK 180
Db 121 SIDDVVVKLAGMNNNTAAADKQFYEKKAALKKEKYKDDIAAYRAKGPNSAKKRVVKAEK 180
QY 181 SKKKKEEEDDEDEQEEENEEDDDK 205
Db 181 SKKKKEEEDDEDEQEEENEEDDDK 205

RESULT 4
US-10-718-495-26
; Sequence 26, Application US/10718495
; GENERAL INFORMATION:
; APPLICANT: O'Keefe, Theresa L.
; TITLE OF INVENTION: USE OF HMGB FRAGMENTS AS
; TITLE OF INVENTION: ANTI-INFLAMMATORY AGENTS
; FILE REFERENCE: 3258.1009-001
; CURRENT APPLICATION NUMBER: US/10718,495
; CURRENT FILING DATE: 2003-11-12
; PRIOR APPLICATION NUMBER: 60/427,841
; PRIOR FILING DATE: 2002-11-20
; NUMBER OF SEQ ID NOS: 58
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 26
; LENGTH: 188
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-718-495-26

Query Match      71.5%; Score 777; DB 1; Length 188;
Best Local Similarity 79.8%; Pred. No. 2.7e-07;
Matches 150; Conservative 8; Mismatches 30; Indels 0; Gaps 0;

QY 1 MDKADPKKLGEMLSYAFFVQTCQBEHKKKNDASVKFSEFLKCCSETWKTIFAKEKGKF 60

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Db 1 MGKGDPPKPRGKMSYAFFVQTCEECKKHPDASVNFSEFSKCSERNWAMSKDKGKF 60
Qy 61 EDMAKADKAHYEREMKTYIPPKGKXKFKDPNAPKPPPLAFFLFCSEYRPKINGEHPGL 120
Db 61 EDMAKVDKDRYEREMKTYIPPKGKTKKFKFEDSNAPKPPPSAFLFLFCSEYCPKIKGEHPGL 120
Qy 121 SIDDVVKKLAGWNNTAAADQOFVEKKAAKLKEYKKDIAARYAKGYPNSAKKVVVKAEK 180
Db 121 PISDVAKKLVEWMNNTFADDDKQLCEKKAALKKEYKKDITATYRAKGPDAAKKGWVKAEK 180
Qy 181 SKKKKEE 188
Db 181 SKKKKEE 188

RESULT 5
US-10-718-495-28
; Sequence 28, Application US/10718495
; GENERAL INFORMATION:
; APPLICANT: O'Keefe, Theresa L.
; TITLE OF INVENTION: USE OF HMGB FRAGMENTS AS
; FILE REFERENCE: 3258.1009-001
; CURRENT APPLICATION NUMBER: US/10/718.495
; CURRENT FILING DATE: 2003-11-12
; PRIOR APPLICATION NUMBER: 60/427,841
; PRIOR FILING DATE: 2002-11-20
; NUMBER OF SEQ ID NOS: 58
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 28
; LENGTH: 80
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-718-495-28

Query Match 30.8%; Score 335; DB 1; Length 80;
Best Local Similarity 78.8%; Pred. No. 1.2; Indels 13; Mismatches 4; Gaps 0;
Matches 63; Conservative 4;

Qy 1 MDKADPKKLGEMLSYAFFVQTCEEHKKKNPDASVKFSEFLKKCSETWKTIFAKEKGKF 60
Db 1 MGKGDPPKPRGKMSYAFFVQTCEEHKKKNPDASVNFSEFSKCSERNWAMSKDKGKF 60
Qy 61 EDMAKADKAHYEREMKTYIP 80
Db 61 EDMKADKAHYEREMKTYIP 80

RESULT 6
US-10-718-495-30
; Sequence 30, Application US/10718495
; GENERAL INFORMATION:
; APPLICANT: O'Keefe, Theresa L.
; TITLE OF INVENTION: USE OF HMGB FRAGMENTS AS
; FILE REFERENCE: 3258.1009-001
; CURRENT APPLICATION NUMBER: US/10/718.495
; CURRENT FILING DATE: 2003-11-12
; PRIOR APPLICATION NUMBER: 60/427,841
; PRIOR FILING DATE: 2002-11-20
; NUMBER OF SEQ ID NOS: 58
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 30
; LENGTH: 86
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-718-495-30

Query Match 28.8%; Score 313; DB 1; Length 86;
Best Local Similarity 73.3%; Pred. No. 2.3; Indels 19; Mismatches 4; Gaps 0;
Matches 63; Conservative 4;

Db 1 MGKADPKKLGEMLSYAFFVQTCEEHKKKNPDASVKFSEFLKKCSETWKTIFAKEKGKF 60
Qy 61 EDMAKADKAHYEREMKTYIP 80
Db 61 EDMKADKAHYEREMKTYIP 80

RESULT 7
US-10-718-495-29
; Sequence 29, Application US/10718495
; GENERAL INFORMATION:
; APPLICANT: O'Keefe, Theresa L.
; TITLE OF INVENTION: USE OF HMGB FRAGMENTS AS
; FILE REFERENCE: 3258.1009-001
; CURRENT APPLICATION NUMBER: US/10/718.495
; CURRENT FILING DATE: 2003-11-12
; PRIOR APPLICATION NUMBER: 60/427,841
; PRIOR FILING DATE: 2002-11-20
; NUMBER OF SEQ ID NOS: 58
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 29
; LENGTH: 80
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-718-495-29

Query Match 27.3%; Score 297; DB 1; Length 80;
Best Local Similarity 73.8%; Pred. No. 3.6; Indels 16; Mismatches 5; Gaps 0;
Matches 59; Conservative 5;

Qy 8 KLGEMLSYAFFVQTCEEHKKKNPDASVKFSEFLKKCSETWKTIFAKEKGKFEDMAKAD 67
Db 1 KQKGKMPYVFCVQTCPEERKKKHPDASVNFSEFSKCSERNWAMSKDKGKF 60
Qy 68 KAHYEREMKTYIPPKGKXK 87
Db 61 KARYEREMKTYIPPKGETKK 80

RESULT 8
US-10-718-495-46
; Sequence 46, Application US/10718495
; GENERAL INFORMATION:
; APPLICANT: O'Keefe, Theresa L.
; TITLE OF INVENTION: USE OF HMGB FRAGMENTS AS
; FILE REFERENCE: 3258.1009-001
; CURRENT APPLICATION NUMBER: US/10/718.495
; CURRENT FILING DATE: 2003-11-12
; PRIOR APPLICATION NUMBER: 60/427,841
; PRIOR FILING DATE: 2002-11-20
; NUMBER OF SEQ ID NOS: 58
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 46
; LENGTH: 54
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-718-495-46

Query Match 26.7%; Score 290; DB 1; Length 54;
Best Local Similarity 100.0%; Pred. No. 4.3; Indels 0; Mismatches 0; Gaps 0;
Matches 54; Conservative 0;

Qy 32 PDASVKFSEFLKKCSETWKTIFAKEKGKFEDMAKADKAHYEREMKTYIPPKGKXK 85
Db 1 PDASVKFSEFLKKCSETWKTIFAKEKGKFEDMAKADKAHYEREMKTYIPPKGKXK 54

RESULT 9
US-10-718-495-47
```

```
Qy 1 MDKADPKKLGEMLSYAFFVQTCEEHKKKNPDASVKFSEFLKKCSETWKTIFAKEKGKF 60
Db 1 MGKRDPPKPRGKMSYAFFVQTCEEHKKKQDASVSEFSKCSERNWAMSKDKGKF 60
Qy 61 EDMAKADKAHYEREMKTYIPPKGKXK 86
Db 61 EDMAKADKAHYEREMKTYIPVYLGKQK 86

RESULT 7
US-10-718-495-29
; Sequence 29, Application US/10718495
; GENERAL INFORMATION:
; APPLICANT: O'Keefe, Theresa L.
; TITLE OF INVENTION: USE OF HMGB FRAGMENTS AS
; FILE REFERENCE: 3258.1009-001
; CURRENT APPLICATION NUMBER: US/10/718.495
; CURRENT FILING DATE: 2003-11-12
; PRIOR APPLICATION NUMBER: 60/427,841
; PRIOR FILING DATE: 2002-11-20
; NUMBER OF SEQ ID NOS: 58
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 29
; LENGTH: 80
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-718-495-29

Query Match 27.3%; Score 297; DB 1; Length 80;
Best Local Similarity 73.8%; Pred. No. 3.6; Indels 16; Mismatches 5; Gaps 0;
Matches 59; Conservative 5;

Qy 8 KLGEMLSYAFFVQTCEEHKKKNPDASVKFSEFLKKCSETWKTIFAKEKGKFEDMAKAD 67
Db 1 KQKGKMPYVFCVQTCPEERKKKHPDASVNFSEFSKCSERNWAMSKDKGKF 60
Qy 68 KAHYEREMKTYIPPKGKXK 87
Db 61 KARYEREMKTYIPPKGETKK 80

RESULT 8
US-10-718-495-46
; Sequence 46, Application US/10718495
; GENERAL INFORMATION:
; APPLICANT: O'Keefe, Theresa L.
; TITLE OF INVENTION: USE OF HMGB FRAGMENTS AS
; FILE REFERENCE: 3258.1009-001
; CURRENT APPLICATION NUMBER: US/10/718.495
; CURRENT FILING DATE: 2003-11-12
; PRIOR APPLICATION NUMBER: 60/427,841
; PRIOR FILING DATE: 2002-11-20
; NUMBER OF SEQ ID NOS: 58
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 46
; LENGTH: 54
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-718-495-46

Query Match 26.7%; Score 290; DB 1; Length 54;
Best Local Similarity 100.0%; Pred. No. 4.3; Indels 0; Mismatches 0; Gaps 0;
Matches 54; Conservative 0;

Qy 32 PDASVKFSEFLKKCSETWKTIFAKEKGKFEDMAKADKAHYEREMKTYIPPKGKXK 85
Db 1 PDASVKFSEFLKKCSETWKTIFAKEKGKFEDMAKADKAHYEREMKTYIPPKGKXK 54

RESULT 9
US-10-718-495-47
```

```
; Sequence 47, Application US/10718495
; GENERAL INFORMATION:
; APPLICANT: O'Keefe, Theresa L.
; TITLE OF INVENTION: USE OF HMGB FRAGMENTS AS
; TITLE OF INVENTION: ANTI-INFLAMMATORY AGENTS
; FILE REFERENCE: 3258.1009-001
; CURRENT APPLICATION NUMBER: US/10/718,495
; CURRENT FILING DATE: 2003-11-12
; PRIOR APPLICATION NUMBER: 60/427,841
; PRIOR FILING DATE: 2002-11-20
; NUMBER OF SEQ ID NOS: 58
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 47
; LENGTH: 54
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-718-495-47

Query Match      23.3%; Score 253; DB 1; Length 54;
Best Local Similarity 86.8%; Pred. No. 7.5;
Matches 46; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

QY 32 PDASVKFSEFLKCKSETWKTIFAKEKGKGFEDMAKADKAHYEREMKTYIPPKGE 84
|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
Db 1 PDASVNFSEFSKCKSERWKTSAKEKGKGFEDMAKADKAHYEREMKTYIPPKGE 53

RESULT 10
US-10-718-495-43
; Sequence 43, Application US/10718495
; GENERAL INFORMATION:
; APPLICANT: O'Keefe, Theresa L.
; TITLE OF INVENTION: USE OF HMGB FRAGMENTS AS
; TITLE OF INVENTION: ANTI-INFLAMMATORY AGENTS
; FILE REFERENCE: 3258.1009-001
; CURRENT APPLICATION NUMBER: US/10/718,495
; CURRENT FILING DATE: 2003-11-12
; PRIOR APPLICATION NUMBER: 60/427,841
; PRIOR FILING DATE: 2002-11-20
; NUMBER OF SEQ ID NOS: 58
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 43
; LENGTH: 54
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-718-495-43

Query Match      22.9%; Score 249; DB 1; Length 54;
Best Local Similarity 88.7%; Pred. No. 7.7;
Matches 47; Conservative 1; Mismatches 5; Indels 0; Gaps 0;

QY 32 PDASVKFSEFLKCKSETWKTIFAKEKGKGFEDMAKADKAHYEREMKTYIPPKGE 84
|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
Db 1 PDASVNFSEFSKCKSERWKTSAKEKGKGFEDMAKADKAHYEREMKTYIPPKGE 53

RESULT 11
US-10-718-495-44
; Sequence 44, Application US/10718495
; GENERAL INFORMATION:
; APPLICANT: O'Keefe, Theresa L.
; TITLE OF INVENTION: USE OF HMGB FRAGMENTS AS
; TITLE OF INVENTION: ANTI-INFLAMMATORY AGENTS
; FILE REFERENCE: 3258.1009-001
; CURRENT APPLICATION NUMBER: US/10/718,495
; CURRENT FILING DATE: 2003-11-12
; PRIOR APPLICATION NUMBER: 60/427,841
; PRIOR FILING DATE: 2002-11-20
; NUMBER OF SEQ ID NOS: 58
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 44
; LENGTH: 54
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-718-495-44

Query Match      21.9%; Score 238; DB 1; Length 54;
Best Local Similarity 84.6%; Pred. No. 7.9;
Matches 44; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

QY 33 DASVKFSEFLKCKSETWKTIFAKEKGKGFEDMAKADKAHYEREMKTYIPPKGE 84
|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
Db 2 DASVNFSEFSKCKSERWKTSAKEKGKGFEDMAKADKAHYEREMKTYIPPKGE 53

RESULT 12
US-10-718-495-45
; Sequence 45, Application US/10718495
; GENERAL INFORMATION:
; APPLICANT: O'Keefe, Theresa L.
; TITLE OF INVENTION: USE OF HMGB FRAGMENTS AS
; TITLE OF INVENTION: ANTI-INFLAMMATORY AGENTS
; FILE REFERENCE: 3258.1009-001
; CURRENT APPLICATION NUMBER: US/10/718,495
; CURRENT FILING DATE: 2003-11-12
; PRIOR APPLICATION NUMBER: 60/427,841
; PRIOR FILING DATE: 2002-11-20
; NUMBER OF SEQ ID NOS: 58
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 45
; LENGTH: 54
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-718-495-45

Query Match      21.7%; Score 236; DB 1; Length 54;
Best Local Similarity 83.0%; Pred. No. 7.9;
Matches 44; Conservative 2; Mismatches 7; Indels 0; Gaps 0;

QY 32 PDASVKFSEFLKCKSETWKTIFAKEKGKGFEDMAKADKAHYEREMKTYIPPKGE 84
|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
Db 1 PDASVNFSEFSKCKSERWKTSAKEKGKGFEDMAKADKAHYEREMKTYIPPKGE 53

Search completed: April 26, 2006, 13:12:18
Job time : 0.0833333 secs

GenCore version 5.1.7
Copyright (c) 1993 - 2006 Bioceleration Ltd.

OM protein - protein search, using sw model

Run on: April 26, 2006, 13:12:17 ; Search time 0.001 Seconds
(without alignments)
106.880 Million cell updates/sec

Title: US-10-718-495-28
Perfect score: 448
Sequence: 1 MGKGDPPKPRGKWSSCAFFV.....EDMPKADKAHYEREMKTYIP 80

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 12 seqs, 1336 residues

Total number of hits satisfying chosen parameters: 12

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 12 summaries

Database : US10718495.pgp:*
```

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	448	100.0	80	1 US-10-718-495-28	Sequence 28, Appl
2	361	80.6	216	1 US-10-718-495-24	Sequence 24, Appl
3	359	80.1	211	1 US-10-718-495-25	Sequence 25, Appl
4	338	75.4	188	1 US-10-718-495-26	Sequence 26, Appl
5	335	74.8	205	1 US-10-718-495-27	Sequence 27, Appl
6	300	67.0	86	1 US-10-718-495-30	Sequence 30, Appl
7	260	58.0	54	1 US-10-718-495-47	Sequence 47, Appl
8	256	57.1	80	1 US-10-718-495-29	Sequence 29, Appl
9	225	50.2	54	1 US-10-718-495-46	Sequence 46, Appl
10	221	49.3	54	1 US-10-718-495-43	Sequence 43, Appl
11	214	47.8	54	1 US-10-718-495-44	Sequence 44, Appl
12	208	46.4	54	1 US-10-718-495-45	Sequence 45, Appl

## ALIGNMENTS

```

RESULT 1
US-10-718-495-28
; Sequence 28, Application US/10718495
; GENERAL INFORMATION:
; APPLICANT: O'Keefe, Theresa L.
; TITLE OF INVENTION: USE OF HMGB FRAGMENTS AS
; FILE REFERENCE: 3258.1009-001
; CURRENT FILING DATE: 2003-11-12
; PRIOR APPLICATION NUMBER: 60/427,841
; PRIOR FILING DATE: 2002-11-20
; NUMBER OF SEQ ID NOS: 58
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 28
; LENGTH: 80
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-718-495-28

Query Match      100.0%   Score 448;   DB 1;   Length 80;
Best Local Similarity 100.0%;   Pred. No. 0.23;   Mismatches 0;   Indels 0;   Gaps 0;
Matches 80;   Conservative 0;

Qy  1  MGKGDPPKPRGMSSCAFFVQTCWEHKKQYPDASINFSEFSQKCPETWKTIIAKEKGKF 60
Db  1  MGKGDPPKPRGMSSCAFFVQTCWEHKKQYPDASINFSEFSQKCPETWKTIIAKEKGKF 60

Qy  61  EDMPKADKAHYEREMKTYIP 80
Db  61  EDMPKADKAHYEREMKTYIP 80

RESULT 2
US-10-718-495-24
; Sequence 24, Application US/10718495
; GENERAL INFORMATION:
; APPLICANT: O'Keefe, Theresa L.
; TITLE OF INVENTION: USE OF HMGB FRAGMENTS AS
; FILE REFERENCE: 3258.1009-001
; CURRENT FILING DATE: 2003-11-12
; PRIOR APPLICATION NUMBER: 60/427,841
; PRIOR FILING DATE: 2002-11-20
; NUMBER OF SEQ ID NOS: 58
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 26
; LENGTH: 189
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-718-495-26

Query Match      100.0%   Score 448;   DB 1;   Length 80;
Best Local Similarity 100.0%;   Pred. No. 0.23;   Mismatches 0;   Indels 0;   Gaps 0;
Matches 80;   Conservative 0;

Qy  1  MGKGDPPKPRGMSSCAFFVQTCWEHKKQYPDASINFSEFSQKCPETWKTIIAKEKGKF 60
Db  1  MGKGDPPKPRGMSSCAFFVQTCWEHKKQYPDASINFSEFSQKCPETWKTIIAKEKGKF 60

Qy  61  EDMPKADKAHYEREMKTYIP 80
Db  61  EDMPKADKAHYEREMKTYIP 80

RESULT 3
US-10-718-495-25
; Sequence 25, Application US/10718495
; GENERAL INFORMATION:
; APPLICANT: O'Keefe, Theresa L.
; TITLE OF INVENTION: USE OF HMGB FRAGMENTS AS
; FILE REFERENCE: 3258.1009-001
; CURRENT FILING DATE: 2003-11-12
; PRIOR APPLICATION NUMBER: 60/427,841
; PRIOR FILING DATE: 2002-11-20
; NUMBER OF SEQ ID NOS: 58
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 25
; LENGTH: 211
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-718-495-25

Query Match      80.1%   Score 359;   DB 1;   Length 211;
Best Local Similarity 82.5%;   Pred. No. 1.6;   Mismatches 10;   Indels 0;   Gaps 0;
Matches 66;   Conservative 4;

Qy  1  MGKGDPPKPRGMSSCAFFVQTCWEHKKQYPDASINFSEFSQKCPETWKTIIAKEKGKF 60
Db  1  MGKGDPPKPRGMSSCAFFVQTCWEHKKQYPDASINFSEFSQKCPETWKTIIAKEKGKF 60

Qy  61  EDMPKADKAHYEREMKTYIP 80
Db  61  EDMPKADKAHYEREMKTYIP 80

RESULT 4
US-10-718-495-26
; Sequence 26, Application US/10718495
; GENERAL INFORMATION:
; APPLICANT: O'Keefe, Theresa L.
; TITLE OF INVENTION: USE OF HMGB FRAGMENTS AS
; FILE REFERENCE: 3258.1009-001
; CURRENT FILING DATE: 2003-11-12
; PRIOR APPLICATION NUMBER: 60/427,841
; PRIOR FILING DATE: 2002-11-20
; NUMBER OF SEQ ID NOS: 58
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 26
; LENGTH: 189
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-718-495-26

```

```

; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 24
; LENGTH: 216
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-718-495-24

```

```

Query Match      80.6%   Score 361;   DB 1;   Length 216;
Best Local Similarity 83.8%;   Pred. No. 1.5;   Mismatches 9;   Indels 0;   Gaps 0;
Matches 67;   Conservative 4;

Qy  1  MGKGDPPKPRGMSSCAFFVQTCWEHKKQYPDASINFSEFSQKCPETWKTIIAKEKGKF 60
Db  1  MGKGDPPKPRGMSSCAFFVQTCWEHKKQYPDASINFSEFSQKCPETWKTIIAKEKGKF 60

Qy  61  EDMPKADKAHYEREMKTYIP 80
Db  61  EDMPKADKAHYEREMKTYIP 80

```

```

RESULT 3
US-10-718-495-25
; Sequence 25, Application US/10718495
; GENERAL INFORMATION:
; APPLICANT: O'Keefe, Theresa L.
; TITLE OF INVENTION: USE OF HMGB FRAGMENTS AS
; FILE REFERENCE: 3258.1009-001
; CURRENT FILING DATE: 2003-11-12
; PRIOR APPLICATION NUMBER: 60/427,841
; PRIOR FILING DATE: 2002-11-20
; NUMBER OF SEQ ID NOS: 58
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 25
; LENGTH: 211
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-718-495-25

```

```

Query Match      80.1%   Score 359;   DB 1;   Length 211;
Best Local Similarity 82.5%;   Pred. No. 1.6;   Mismatches 10;   Indels 0;   Gaps 0;
Matches 66;   Conservative 4;

Qy  1  MGKGDPPKPRGMSSCAFFVQTCWEHKKQYPDASINFSEFSQKCPETWKTIIAKEKGKF 60
Db  1  MGKGDPPKPRGMSSCAFFVQTCWEHKKQYPDASINFSEFSQKCPETWKTIIAKEKGKF 60

Qy  61  EDMPKADKAHYEREMKTYIP 80
Db  61  EDMPKADKAHYEREMKTYIP 80

```

```

RESULT 4
US-10-718-495-26
; Sequence 26, Application US/10718495
; GENERAL INFORMATION:
; APPLICANT: O'Keefe, Theresa L.
; TITLE OF INVENTION: USE OF HMGB FRAGMENTS AS
; FILE REFERENCE: 3258.1009-001
; CURRENT FILING DATE: 2003-11-12
; PRIOR APPLICATION NUMBER: 60/427,841
; PRIOR FILING DATE: 2002-11-20
; NUMBER OF SEQ ID NOS: 58
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 26
; LENGTH: 189
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-718-495-26

```

```

Query Match      75.4%; Score 338; DB 1; Length 188;
Best Local Similarity 78.8%; Pred. No. 2.4;
Matches 63; Conservative 5; Mismatches 12; Indels 0; Gaps 0;

Qy 1 MGKDPKPKPRGKMSCAFFVQTCWEHKKQYDPDASINFSEFSQKCPETWTKTTIAKEKGKF 60
Db 1 MGKDPKPKPRGKMSYAFFVQTCREECKKHGHPDASVNFSEFSKCKSERWKMSAKDKGKF 60

Qy 61 EDMPKADKAHYEREMKTYIP 80
Db 61 EDMAKVDKDRYEREMKTYIP 80

RESULT 5
US-10-718-495-27
; Sequence 27, Application US/10718495
; GENERAL INFORMATION:
; APPLICANT: O'Keefe, Theresa L.
; TITLE OF INVENTION: USE OF HMGB FRAGMENTS AS
; FILE REFERENCE: 3258.1009-001
; CURRENT APPLICATION NUMBER: US/10/718,495
; CURRENT FILING DATE: 2003-11-12
; PRIOR APPLICATION NUMBER: 60/427,841
; PRIOR FILING DATE: 2002-11-20
; NUMBER OF SEQ ID NOS: 58
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 27
; LENGTH: 205
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-718-495-27

Query Match      74.8%; Score 335; DB 1; Length 205;
Best Local Similarity 78.8%; Pred. No. 2.6;
Matches 63; Conservative 4; Mismatches 13; Indels 0; Gaps 0;

Qy 1 MGKDPKPKPRGKMSCAFFVQTCWEHKKQYDPDASINFSEFSQKCPETWTKTTIAKEKGKF 60
Db 1 MDKADPKKLGEMLSYAFFVQTCQEEHKKKNDASVSEFSLKCKSETWTKTIFAKEKGKF 60

Qy 61 EDMPKADKAHYEREMKTYIP 80
Db 61 EDMAKADKAHYEREMKTYIP 80

RESULT 6
US-10-718-495-30
; Sequence 30, Application US/10718495
; GENERAL INFORMATION:
; APPLICANT: O'Keefe, Theresa L.
; TITLE OF INVENTION: USE OF HMGB FRAGMENTS AS
; FILE REFERENCE: 3258.1009-001
; CURRENT APPLICATION NUMBER: US/10/718,495
; CURRENT FILING DATE: 2003-11-12
; PRIOR APPLICATION NUMBER: 60/427,841
; PRIOR FILING DATE: 2002-11-20
; NUMBER OF SEQ ID NOS: 58
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 30
; LENGTH: 86
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-718-495-30

Query Match      67.0%; Score 300; DB 1; Length 86;
Best Local Similarity 74.4%; Pred. No. 5;
Matches 58; Conservative 5; Mismatches 15; Indels 0; Gaps 0;

Qy 1 MGKDPKPKPRGKMSCAFFVQTCWEHKKQYDPDASINFSEFSQKCPETWTKTTIAKEKGKF 60
Db 1 MGRDRPKQPRGKMSYAFFVQTAQEEHKKQLDASVSEFSKCKSERWTKTMSVKEKGKF 60

```

```

Qy 61 EDMPKADKAHYEREMKTY 78
Db 61 EDMAKADKACYEREMKTY 78

```

## RESULT 7

```

US-10-718-495-47
; Sequence 47, Application US/10718495
; GENERAL INFORMATION:
; APPLICANT: O'Keefe, Theresa L.
; TITLE OF INVENTION: USE OF HMGB FRAGMENTS AS
; FILE REFERENCE: 3258.1009-001
; CURRENT APPLICATION NUMBER: US/10/718,495
; CURRENT FILING DATE: 2003-11-12
; PRIOR APPLICATION NUMBER: 60/427,841
; PRIOR FILING DATE: 2002-11-20
; NUMBER OF SEQ ID NOS: 58
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 47
; LENGTH: 54
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-718-495-47

```

```

Query Match      58.0%; Score 260; DB 1; Length 54;
Best Local Similarity 98.0%; Pred. No. 8.8;
Matches 48; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

```

```

Qy 32 PDASINFSEFSQKCPETWTKTTIAKEGKPEDMPKADKAHYEREMKTYIP 80
Db 1 PDASINFSEFSQKCPETWTKTTIAKEGKPEDMAKADKAHYEREMKTYIP 49

```

## RESULT 8

```

US-10-718-495-29
; Sequence 29, Application US/10718495
; GENERAL INFORMATION:
; APPLICANT: O'Keefe, Theresa L.
; TITLE OF INVENTION: USE OF HMGB FRAGMENTS AS
; FILE REFERENCE: 3258.1009-001
; CURRENT APPLICATION NUMBER: US/10/718,495
; CURRENT FILING DATE: 2003-11-12
; PRIOR APPLICATION NUMBER: 60/427,841
; PRIOR FILING DATE: 2002-11-20
; NUMBER OF SEQ ID NOS: 58
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 29
; LENGTH: 80
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-718-495-29

```

```

Query Match      57.1%; Score 256; DB 1; Length 80;
Best Local Similarity 69.9%; Pred. No. 9.1;
Matches 51; Conservative 6; Mismatches 16; Indels 0; Gaps 0;

```

```

Qy 8 KPRGKMSCAFFVQTCWEHKKQYDPDASINFSEFSQKCPETWTKTTIAKEGKPEDMPKAD 67
Db 1 KQRGKMPSYVFCVQTCPEERKKKHGHPDASVNFSEFSKCKLVRGKTSAKEKGQPEANRAD 60

Qy 68 KAHYEREMKTYIP 80
Db 61 KARYEREMKTYIP 73

```

## RESULT 9

```

US-10-718-495-46
; Sequence 46, Application US/10718495
; GENERAL INFORMATION:
; APPLICANT: O'Keefe, Theresa L.

```





and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	425	100.0	80	1 US-10-718-495-29	Sequence 29, Appl
2	343	80.7	216	1 US-10-718-495-24	Sequence 24, Appl
3	328	77.2	188	1 US-10-718-495-26	Sequence 26, Appl
4	324	76.2	211	1 US-10-718-495-25	Sequence 25, Appl
5	297	69.9	205	1 US-10-718-495-27	Sequence 27, Appl
6	256	60.2	80	1 US-10-718-495-28	Sequence 28, Appl
7	248	58.4	86	1 US-10-718-495-30	Sequence 30, Appl
8	246	57.9	54	1 US-10-718-495-43	Sequence 43, Appl
9	227	53.4	54	1 US-10-718-495-45	Sequence 45, Appl
10	222	52.2	54	1 US-10-718-495-44	Sequence 44, Appl
11	217	51.1	54	1 US-10-718-495-47	Sequence 47, Appl
12	208	48.9	54	1 US-10-718-495-46	Sequence 46, Appl

## ALIGNMENTS

```

RESULT 1
US-10-718-495-29
; Sequence 29, Application US/10718495
; GENERAL INFORMATION:
; APPLICANT: O'Keefe, Theresa L.
; TITLE OF INVENTION: USE OF HMGB FRAGMENTS AS
; FILE REFERENCE: 3258.1009-001
; CURRENT APPLICATION NUMBER: US/10718,495
; CURRENT FILING DATE: 2003-11-12
; PRIOR APPLICATION NUMBER: 60/427,841
; PRIOR FILING DATE: 2002-11-20
; NUMBER OF SEQ ID NOS: 58
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 29
; LENGTH: 80
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-718-495-29

Query Match      100.0%; Score 425; DB 1; Length 80;
Best Local Similarity 100.0%; Pred. No. 0.34;
Matches 80; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KQKGKMPSYVFCVQTCPEERKKKHPDASVNFSEFSKKCLVRGKTMSSAKKQGFEMARAD 60
Db 1 KQKGKMPSYVFCVQTCPEERKKKHPDASVNFSEFSKKCLVRGKTMSSAKKQGFEMARAD 60
Qy 61 KARYEREMKTYIPPKGETKK 80
Db 61 KARYEREMKTYIPPKGETKK 80

```

```

RESULT 2
US-10-718-495-24
; Sequence 24, Application US/10718495
; GENERAL INFORMATION:
; APPLICANT: O'Keefe, Theresa L.
; TITLE OF INVENTION: USE OF HMGB FRAGMENTS AS
; FILE REFERENCE: 3258.1009-001
; CURRENT APPLICATION NUMBER: US/10718,495
; CURRENT FILING DATE: 2003-11-12
; PRIOR APPLICATION NUMBER: 60/427,841
; PRIOR FILING DATE: 2002-11-20
; NUMBER OF SEQ ID NOS: 58
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 24
; LENGTH: 216

```

```

; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-718-495-24

```

```

Query Match      80.7%; Score 343; DB 1; Length 216;
Best Local Similarity 83.8%; Pred. No. 2.1;
Matches 67; Conservative 2; Mismatches 11; Indels 0; Gaps 0;

Qy 1 KQKGKMPSYVFCVQTCPEERKKKHPDASVNFSEFSKKCLVRGKTMSSAKKQGFEMARAD 60
Db 8 KPTGRKSSVFAFFVQTCREBCKKKHPDASVNFSEFSKKCSERWKMSAKKQGFEDMAKAD 67
Qy 61 KARYEREMKTYIPPKGETKK 80
Db 68 KARYEREMKTYIPPKGETKK 87

```

```

RESULT 3
US-10-718-495-26
; Sequence 26, Application US/10718495
; GENERAL INFORMATION:
; APPLICANT: O'Keefe, Theresa L.
; TITLE OF INVENTION: USE OF HMGB FRAGMENTS AS
; FILE REFERENCE: 3258.1009-001
; CURRENT APPLICATION NUMBER: US/10718,495
; CURRENT FILING DATE: 2003-11-12
; PRIOR APPLICATION NUMBER: 60/427,841
; PRIOR FILING DATE: 2002-11-20
; NUMBER OF SEQ ID NOS: 58
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 26
; LENGTH: 188
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-718-495-26

```

```

Query Match      77.2%; Score 328; DB 1; Length 188;
Best Local Similarity 80.0%; Pred. No. 2.8;
Matches 64; Conservative 3; Mismatches 13; Indels 0; Gaps 0;

Qy 1 KQKGKMPSYVFCVQTCPEERKKKHPDASVNFSEFSKKCLVRGKTMSSAKKQGFEMARAD 60
Db 8 KPRGKMPSSVFAFFVQTCREBCKKKHPDASVNFSEFSKKCSERWKMSAKKQGFEDMAKVD 67
Qy 61 KARYEREMKTYIPPKGETKK 80
Db 68 KORYEREMKTYIPPKGETKK 87

```

```

RESULT 4
US-10-718-495-25
; Sequence 25, Application US/10718495
; GENERAL INFORMATION:
; APPLICANT: O'Keefe, Theresa L.
; TITLE OF INVENTION: USE OF HMGB FRAGMENTS AS
; FILE REFERENCE: 3258.1009-001
; CURRENT APPLICATION NUMBER: US/10718,495
; CURRENT FILING DATE: 2003-11-12
; PRIOR APPLICATION NUMBER: 60/427,841
; PRIOR FILING DATE: 2002-11-20
; NUMBER OF SEQ ID NOS: 58
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 25
; LENGTH: 211
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-718-495-25

```

```

Query Match      76.2%; Score 324; DB 1; Length 211;
Best Local Similarity 78.8%; Pred. No. 3;
Matches 63; Conservative 3; Mismatches 14; Indels 0; Gaps 0;

```





Result No.	Score	Query Match	Length	DB	ID	Description
1	455	100.0	86	1	US-10-718-495-30	Sequence 30, Appl
2	350	76.9	216	1	US-10-718-495-24	Sequence 24, Appl
3	345	75.8	211	1	US-10-718-495-25	Sequence 25, Appl
4	327	71.9	188	1	US-10-718-495-26	Sequence 26, Appl
5	313	68.8	205	1	US-10-718-495-27	Sequence 27, Appl
6	300	65.9	80	1	US-10-718-495-28	Sequence 28, Appl
7	248	54.5	80	1	US-10-718-495-29	Sequence 29, Appl
8	215	47.3	54	1	US-10-718-495-43	Sequence 43, Appl
9	203	44.6	54	1	US-10-718-495-44	Sequence 44, Appl
10	203	44.6	54	1	US-10-718-495-45	Sequence 45, Appl
11	193	42.4	54	1	US-10-718-495-46	Sequence 46, Appl
12	187	41.1	54	1	US-10-718-495-47	Sequence 47, Appl
ALIGNMENTS						
RESULT 1						
US-10-718-495-30						
; Sequence 30, Application US/10718495						
; GENERAL INFORMATION:						
; APPLICANT: O'Keefe, Theresa L.						
; TITLE OF INVENTION: USE OF HMGB FRAGMENTS AS						
; FILE REFERENCE: 3258.1009-001						
; CURRENT APPLICATION NUMBER: US/10/718,495						
; CURRENT FILING DATE: 2003-11-12						
; PRIOR APPLICATION NUMBER: 60/427,841						
; PRIOR FILING DATE: 2002-11-20						
; NUMBER OF SEQ ID NOS: 58						
; SOFTWARE: FastSeq for Windows Version 4.0						
; SEQ ID NO 30						
; LENGTH: 86						
; TYPE: PRT						
; ORGANISM: Homo sapiens						
US-10-718-495-30						
Query Match						
Best Local Similarity 100.0%; Score 455; DB 1; Length 86;						
Matches 86; Conservative 0; Mismatches 0; Indels 0; Gaps 0;						
Qy	1	MGKRDPKQPRGKMSSYAFFVQTAEHKKKOLDASVSFSEFSKNCSESRWKTMSVKEKGKF	60			
Db	1	MGKRDPKQPRGKMSSYAFFVQTAEHKKKOLDASVSFSEFSKNCSESRWKTMSVKEKGKF	60			
Qy	61	EDMAKADKACVEREMKIYPYLKGRQK	86			
Db	61	EDMAKADKACVEREMKIYPYLKGRQK	86			
RESULT 2						
US-10-718-495-24						
; Sequence 24, Application US/10718495						
; GENERAL INFORMATION:						
; APPLICANT: O'Keefe, Theresa L.						
; TITLE OF INVENTION: USE OF HMGB FRAGMENTS AS						
; FILE REFERENCE: 3258.1009-001						
; CURRENT APPLICATION NUMBER: US/10/718,495						
; CURRENT FILING DATE: 2003-11-12						
; PRIOR APPLICATION NUMBER: 60/427,841						
; PRIOR FILING DATE: 2002-11-20						
; NUMBER OF SEQ ID NOS: 58						
; SOFTWARE: FastSeq for Windows Version 4.0						
; SEQ ID NO 24						
; LENGTH: 216						
; TYPE: PRT						
; ORGANISM: Homo sapiens						
US-10-718-495-24						

Query Match		76.9%;	Score 350;	DB 1;	Length 216;
Best Local Similarity		80.2%;	Pred. No. 2;		
Matches		69;	Conservative	3; Mismatches	14; Indels 0; Gaps 0;
Qy	1	MGKRDPKQPRGKMSSYAFFVQTAEHKKKOLDASVSFSEFSKNCSESRWKTMSVKEKGKF	60		
Db	1	MGKRDPKQPRGKMSSYAFFVQTAEHKKKOLDASVSFSEFSKNCSESRWKTMSVKEKGKF	60		
Qy	61	EDMAKADKACVEREMKIYPYLKGRQK	86		
Db	61	EDMAKADKACVEREMKIYPYLKGRQK	86		
RESULT 3					
US-10-718-495-25					
; Sequence 25, Application US/10718495					
; GENERAL INFORMATION:					
; APPLICANT: O'Keefe, Theresa L.					
; TITLE OF INVENTION: USE OF HMGB FRAGMENTS AS					
; FILE REFERENCE: 3258.1009-001					
; CURRENT APPLICATION NUMBER: US/10/718,495					
; CURRENT FILING DATE: 2003-11-12					
; PRIOR APPLICATION NUMBER: 60/427,841					
; PRIOR FILING DATE: 2002-11-20					
; NUMBER OF SEQ ID NOS: 58					
; SOFTWARE: FastSeq for Windows Version 4.0					
; SEQ ID NO 25					
; LENGTH: 211					
; TYPE: PRT					
; ORGANISM: Homo sapiens					
US-10-718-495-25					
Query Match		75.8%;	Score 345;	DB 1;	Length 211;
Best Local Similarity		77.9%;	Pred. No. 2.2;		
Matches		67;	Conservative	4; Mismatches	15; Indels 0; Gaps 0;
Qy	1	MGKRDPKQPRGKMSSYAFFVQTAEHKKKOLDASVSFSEFSKNCSESRWKTMSVKEKGKF	60		
Db	1	MGKRDPKQPRGKMSSYAFFVQTAEHKKKOLDASVSFSEFSKNCSESRWKTMSVKEKGKF	60		
Qy	61	EDMAKADKACVEREMKIYPYLKGRQK	86		
Db	61	EDMAKADKACVEREMKIYPYLKGRQK	86		
RESULT 4					
US-10-718-495-26					
; Sequence 26, Application US/10718495					
; GENERAL INFORMATION:					
; APPLICANT: O'Keefe, Theresa L.					
; TITLE OF INVENTION: USE OF HMGB FRAGMENTS AS					
; FILE REFERENCE: 3258.1009-001					
; CURRENT APPLICATION NUMBER: US/10/718,495					
; CURRENT FILING DATE: 2003-11-12					
; PRIOR APPLICATION NUMBER: 60/427,841					
; PRIOR FILING DATE: 2002-11-20					
; NUMBER OF SEQ ID NOS: 58					
; SOFTWARE: FastSeq for Windows Version 4.0					
; SEQ ID NO 26					
; LENGTH: 188					
; TYPE: PRT					
; ORGANISM: Homo sapiens					
US-10-718-495-26					
Query Match		71.9%;	Score 327;	DB 1;	Length 188;
Best Local Similarity		75.6%;	Pred. No. 3;		
Matches		65;	Conservative	4; Mismatches	17; Indels 0; Gaps 0;
Qy	1	MGKRDPKQPRGKMSSYAFFVQTAEHKKKOLDASVSFSEFSKNCSESRWKTMSVKEKGKF	60		

```

Db      1  MGKDPKPKRGKMSYAFFVQTCECKKKHDPDASVNFSEFSKCSERWKMSAKDKGKF 60
Qy      61  EDMAKADKACYEREMKIYPYLKGROK 86
Db      61  EDMAKVDKDRYEREMKTIYPKGTEK 86

RESULT 5
US-10-718-495-27
; Sequence 27, Application US/10718495
; GENERAL INFORMATION:
; APPLICANT: O'Keefe, Theresa L.
; TITLE OF INVENTION: USE OF HMGB FRAGMENTS AS
; FILE REFERENCE: 3258.1009-001
; CURRENT APPLICATION NUMBER: US/10/718,495
; PRIOR FILING DATE: 2003-11-12
; PRIOR APPLICATION NUMBER: 60/427,841
; NUMBER OF SEQ ID NOS: 58
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 27
; LENGTH: 205
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-718-495-27

Query Match      68.8%; Score 313; DB 1; Length 205;
Best Local Similarity 73.3%; Pred. No. 3.7;
Matches 63; Conservative 4; Mismatches 19; Indels 0; Gaps 0;

Qy      1  MGKRDPKQPRGKMSYAFFVQTAEHKKQLDASVSFSEFSKCSERWKMTMSVKEKGKF 60
Db      1  MDKADPKKLGEMLSYAFFVQTCEHKKKNDASVAFSEFLKCKSETWKTTFAKEKGKF 60

Qy      61  EDMAKADKACYEREMKIYPYLKGROK 86
Db      61  EDMAKADKAHYEREMKTIYPKGTEK 86

RESULT 6
US-10-718-495-28
; Sequence 28, Application US/10718495
; GENERAL INFORMATION:
; APPLICANT: O'Keefe, Theresa L.
; TITLE OF INVENTION: USE OF HMGB FRAGMENTS AS
; FILE REFERENCE: 3258.1009-001
; CURRENT APPLICATION NUMBER: US/10/718,495
; PRIOR FILING DATE: 2003-11-12
; PRIOR APPLICATION NUMBER: 60/427,841
; NUMBER OF SEQ ID NOS: 58
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 28
; LENGTH: 80
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-718-495-28

Query Match      65.9%; Score 300; DB 1; Length 80;
Best Local Similarity 74.4%; Pred. No. 4.5;
Matches 58; Conservative 5; Mismatches 15; Indels 0; Gaps 0;

Qy      1  MGKRDPKQPRGKMSYAFFVQTAEHKKQLDASVSFSEFSKCSERWKMTMSVKEKGKF 60
Db      1  MGKGDPKPKRGKMSYAFFVQTCEHKKKQPDASVNFSEFSKCPETWKTTFIAKEKGKF 60

Qy      61  EDMAKADKACYEREMKTY 78
Db      61  EDMKADKAHYEREMKTY 78

```

```

RESULT 7
US-10-718-495-29
; Sequence 29, Application US/10718495
; GENERAL INFORMATION:
; APPLICANT: O'Keefe, Theresa L.
; TITLE OF INVENTION: USE OF HMGB FRAGMENTS AS
; FILE REFERENCE: 3258.1009-001
; CURRENT APPLICATION NUMBER: US/10/718,495
; CURRENT FILING DATE: 2003-11-12
; PRIOR APPLICATION NUMBER: 60/427,841
; PRIOR FILING DATE: 2002-11-20
; NUMBER OF SEQ ID NOS: 58
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 29
; LENGTH: 80
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-718-495-29

Query Match      54.5%; Score 248; DB 1; Length 80;
Best Local Similarity 68.8%; Pred. No. 8.5;
Matches 53; Conservative 3; Mismatches 21; Indels 0; Gaps 0;

Qy      10  RGRMSSYAFFVQTAEHKKQLDASVSFSEFSKCSERWKMTMSVKEKGKFEDMAKADKA 69
Db      3  RGRMPSYVFCVQTCPEERKKKHPDASVNFSEFSKCLVRGKTSAKEKGQFEMARADKA 62

Qy      70  CYEREMKIYPYLKGROK 86
Db      63  RYEREMKTIYPKGTEK 79

RESULT 8
US-10-718-495-43
; Sequence 43, Application US/10718495
; GENERAL INFORMATION:
; APPLICANT: O'Keefe, Theresa L.
; TITLE OF INVENTION: USE OF HMGB FRAGMENTS AS
; FILE REFERENCE: 3258.1009-001
; CURRENT APPLICATION NUMBER: US/10/718,495
; CURRENT FILING DATE: 2003-11-12
; PRIOR APPLICATION NUMBER: 60/427,841
; PRIOR FILING DATE: 2002-11-20
; NUMBER OF SEQ ID NOS: 58
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 43
; LENGTH: 54
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-718-495-43

Query Match      47.3%; Score 215; DB 1; Length 54;
Best Local Similarity 84.3%; Pred. No. 11;
Matches 43; Conservative 1; Mismatches 7; Indels 0; Gaps 0;

Qy      33  DASVSFSEFSKCSERWKMTMSVKEKGKFEDMAKADKACYEREMKIYPYLKG 83
Db      2  DASVNFSEFSKCSERWKMTMSAKEKGKFEDMAKADKARYEREMKTIYPKG 52

RESULT 9
US-10-718-495-44
; Sequence 44, Application US/10718495
; GENERAL INFORMATION:
; APPLICANT: O'Keefe, Theresa L.
; TITLE OF INVENTION: USE OF HMGB FRAGMENTS AS
; FILE REFERENCE: 3258.1009-001
; CURRENT APPLICATION NUMBER: US/10/718,495
; CURRENT FILING DATE: 2003-11-12
; PRIOR APPLICATION NUMBER: 60/427,841

```

; PRIOR FILING DATE: 2002-11-20
; NUMBER OF SEQ ID NOS: 58
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 44
; LENGTH: 54
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-718-495-44

Query Match 44.6%; Score 203; DB 1; Length 54;
Best Local Similarity 78.4%; Pred. No. 11;
Matches 40; Conservative 2; Mismatches 9; Indels 0; Gaps 0;

Qy 33 DASVSFSEFKNCSEKRWKTSVKEKGFEDMAKADKACRYEREMKIYPYLKG 83
Db 2 DASVNFSEFKNCSEKRWKTSVKEKGFEDMAKADKTHYEROMKIYPPKRG 52

RESULT 10
US-10-718-495-45
; Sequence 45, Application US/10718495
; GENERAL INFORMATION:
; APPLICANT: O'Keefe, Theresa L.
; TITLE OF INVENTION: USE OF HMGB FRAGMENTS AS
; FILE REFERENCE: 3258.1009-001
; CURRENT FILING DATE: 2003-11-12
; PRIOR APPLICATION NUMBER: 60/427,841
; PRIOR FILING DATE: 2002-11-20
; NUMBER OF SEQ ID NOS: 58
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 45
; LENGTH: 54
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-718-495-45

Query Match 44.6%; Score 203; DB 1; Length 54;
Best Local Similarity 78.4%; Pred. No. 11;
Matches 40; Conservative 2; Mismatches 9; Indels 0; Gaps 0;

Qy 33 DASVSFSEFKNCSEKRWKTSVKEKGFEDMAKADKACRYEREMKIYPYLKG 83
Db 2 DASVNFSEFKNCSEKRWKTSVKEKGFEDMAKADKADYEREMKIYPPKRG 52

RESULT 11
US-10-718-495-46
; Sequence 46, Application US/10718495
; GENERAL INFORMATION:
; APPLICANT: O'Keefe, Theresa L.
; TITLE OF INVENTION: USE OF HMGB FRAGMENTS AS
; FILE REFERENCE: 3258.1009-001
; CURRENT FILING DATE: 2003-11-12
; PRIOR APPLICATION NUMBER: 60/427,841
; PRIOR FILING DATE: 2002-11-20
; NUMBER OF SEQ ID NOS: 58
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 46
; LENGTH: 54
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-718-495-46

Query Match 42.4%; Score 193; DB 1; Length 54;
Best Local Similarity 73.6%; Pred. No. 12;
Matches 39; Conservative 2; Mismatches 12; Indels 0; Gaps 0;

Qy 33 DASVSFSEFKNCSEKRWKTSVKEKGFEDMAKADKACRYEREMKIYPYLKG 85

Db 2 DASVKTFSEFLKCKCSEKWKTKIFAKEKGFEDMAKADKAHYEREMKTYIPPKGEK 54

RESULT 12
US-10-718-495-47
; Sequence 47, Application US/10718495
; GENERAL INFORMATION:
; APPLICANT: O'Keefe, Theresa L.
; TITLE OF INVENTION: USE OF HMGB FRAGMENTS AS
; FILE REFERENCE: 3258.1009-001
; CURRENT FILING DATE: 2003-11-12
; PRIOR APPLICATION NUMBER: 60/427,841
; PRIOR FILING DATE: 2002-11-20
; NUMBER OF SEQ ID NOS: 58
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 47
; LENGTH: 54
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-718-495-47

Query Match 41.1%; Score 187; DB 1; Length 54;
Best Local Similarity 72.5%; Pred. No. 12;
Matches 37; Conservative 3; Mismatches 11; Indels 0; Gaps 0;

Qy 33 DASVSFSEFKNCSEKRWKTSVKEKGFEDMAKADKACRYEREMKIYPYLKG 83
Db 2 DASVNFSEFKCKCSEKWKTKIFAKEKGFEDMAKADKAHYEREMKTYIPPKGEK 52

Search completed: April 26, 2006, 13:12:19
Job time : 0.0833333 secs

GenCore version 5.1.7
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OM protein - protein search, using sw model
Run on: April 26, 2006, 13:12:17 ; Search time 0.001 Seconds
(without alignments)
72.144 Million cell updates/sec

Title: US-10-718-495-43
Perfect score: 287
Sequence: 1 PDASVNFSEFKCKCSEKRWKT.....ADKARYEREMKTYIPPKGET 54

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 12 seqs, 1336 residues
Total number of hits satisfying chosen parameters: 12

Minimum DB seq length: 0
Maximum DB seq length: 2000000000
Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 12 summaries

Database : US10718495.pep.\*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No. Score Query Match Length DB ID Description

1	287	100.0	54	1	US-10-718-495-43	Sequence 43, Appl
2	287	100.0	216	1	US-10-718-495-24	Sequence 24, Appl
3	269	93.7	188	1	US-10-718-495-26	Sequence 26, Appl
4	268	93.4	54	1	US-10-718-495-45	Sequence 45, Appl
5	263	91.6	54	1	US-10-718-495-44	Sequence 44, Appl
6	263	91.6	211	1	US-10-718-495-25	Sequence 25, Appl
7	254	88.5	54	1	US-10-718-495-47	Sequence 47, Appl
8	249	86.8	54	1	US-10-718-495-46	Sequence 46, Appl
9	249	86.8	205	1	US-10-718-495-27	Sequence 27, Appl
10	246	85.7	80	1	US-10-718-495-29	Sequence 29, Appl
11	221	77.0	80	1	US-10-718-495-28	Sequence 28, Appl
12	215	74.9	86	1	US-10-718-495-30	Sequence 30, Appl

## ALIGNMENTS

```

RESULT 1
US-10-718-495-43
; Sequence 43, Application US/10718495
; GENERAL INFORMATION:
; APPLICANT: O'Keefe, Theresa L.
; TITLE OF INVENTION: USE OF HMGB FRAGMENTS AS
; TITLE OF INVENTION: ANTI-INFLAMMATORY AGENTS
; FILE REFERENCE: 3258.1009-001
; CURRENT APPLICATION NUMBER: US/10718.495
; CURRENT FILING DATE: 2003-11-12
; PRIOR APPLICATION NUMBER: 60/427,841
; PRIOR FILING DATE: 2002-11-20
; NUMBER OF SEQ ID NOS: 58
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 43
; LENGTH: 54
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-718-495-43

```

```

Db      32 PDASVNFSEFSKCSERWKTMSAKEKGKGFEDMAKADKARYEREMKTYIPPKGET 85

RESULT 3
US-10-718-495-26
; Sequence 26, Application US/10718495
; GENERAL INFORMATION:
; APPLICANT: O'Keefe, Theresa L.
; TITLE OF INVENTION: USE OF HMGB FRAGMENTS AS
; FILE OF INVENTION: ANTI-INFLAMMATORY AGENTS
; FILE REFERENCE: 3258.1009-001
; CURRENT APPLICATION NUMBER: US/10/718,495
; CURRENT FILING DATE: 2003-11-12
; PRIOR APPLICATION NUMBER: 60/427,841
; PRIOR FILING DATE: 2002-11-20
; NUMBER OF SEQ ID NOS: 58
; SOFTWARE: Fast-SEQ for Windows Version 4.0
; SEQ ID NO 26
; LENGTH: 188
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-718-495-26

Query Match      93.7%; Score 269; DB 1; Length 188;
Best Local Similarity 92.6%; Pred. No. 3.7;
Matches 50; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

Qy      1 PDASVNFSEFSKCSERWKTMSAKEKGKGFEDMAKADKARYEREMKTYIPPKGET 54
        |||||
Db      32 PDASVNFSEFSKCSERWKTMSAKEKGKGFEDMAKADKARYEREMKTYIPPKGET 85

RESULT 4
US-10-718-495-45
; Sequence 45, Application US/10718495
; GENERAL INFORMATION:
; APPLICANT: O'Keefe, Theresa L.
; TITLE OF INVENTION: USE OF HMGB FRAGMENTS AS
; FILE OF INVENTION: ANTI-INFLAMMATORY AGENTS
; FILE REFERENCE: 3258.1009-001
; CURRENT APPLICATION NUMBER: US/10/718,495
; CURRENT FILING DATE: 2003-11-12
; PRIOR APPLICATION NUMBER: 60/427,841
; PRIOR FILING DATE: 2002-11-20
; NUMBER OF SEQ ID NOS: 58
; SOFTWARE: Fast-SEQ for Windows Version 4.0
; SEQ ID NO 45
; LENGTH: 54
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-718-495-45

Query Match      93.4%; Score 268; DB 1; Length 54;
Best Local Similarity 92.6%; Pred. No. 3.9;
Matches 50; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

Qy      1 PDASVNFSEFSKCSERWKTMSAKEKGKGFEDMAKADKARYEREMKTYIPPKGET 54
        |||||
Db      1 PDASVNFSEFSKCSERWKTMSAKEKGKGFEDMAKADKARYEREMKTYIPPKGET 54

```

```

; NUMBER OF SEQ ID NOS: 58
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 44
; LENGTH: 54
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-718-495-44

Query Match      91.6%; Score 263; DB 1; Length 54;
Best Local Similarity 92.5%; Pred. No. 5;
Matches 49; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

Qy 2 DASVNFSEFSKCSERWKTMSAKEKGKPFEDMAKADKARYEREMKTYIPPKGET 54
|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
Db 2 DASVNFSEFSKCSERWKTMSAKEKGKPFEDMAKADKTHYERQMKTYPKGET 54

RESULT 6
US-10-718-495-25
; Sequence 25, Application US/10718495
; GENERAL INFORMATION:
; APPLICANT: O'Keefe, Theresa L.
; TITLE OF INVENTION: USE OF HMGB FRAGMENTS AS
; FILE REFERENCE: 3258.1009-001
; CURRENT APPLICATION NUMBER: US/10/718,495
; CURRENT FILING DATE: 2003-11-12
; PRIOR APPLICATION NUMBER: 60/427,841
; PRIOR FILING DATE: 2002-11-20
; NUMBER OF SEQ ID NOS: 58
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 25
; LENGTH: 211
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-718-495-25

Query Match      91.6%; Score 263; DB 1; Length 211;
Best Local Similarity 92.5%; Pred. No. 5;
Matches 49; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

Qy 2 DASVNFSEFSKCSERWKTMSAKEKGKPFEDMAKADKARYEREMKTYIPPKGET 54
|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
Db 33 DASVNFSEFSKCSERWKTMSAKEKGKPFEDMAKADKTHYERQMKTYPKGET 85

RESULT 7
US-10-718-495-47
; Sequence 47, Application US/10718495
; GENERAL INFORMATION:
; APPLICANT: O'Keefe, Theresa L.
; TITLE OF INVENTION: USE OF HMGB FRAGMENTS AS
; FILE REFERENCE: 3258.1009-001
; CURRENT APPLICATION NUMBER: US/10/718,495
; CURRENT FILING DATE: 2003-11-12
; PRIOR APPLICATION NUMBER: 60/427,841
; PRIOR FILING DATE: 2002-11-20
; NUMBER OF SEQ ID NOS: 58
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 47
; LENGTH: 54
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-718-495-47

Query Match      88.5%; Score 254; DB 1; Length 54;
Best Local Similarity 87.0%; Pred. No. 7.5;
Matches 47; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

Qy 1 PDASVNFSEFSKCSERWKTMSAKEKGKPFEDMAKADKARYEREMKTYIPPKGET 54
|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
Db 1 PDASVNFSEFSKCSERWKTMSAKEKGKPFEDMAKADKARYEREMKTYIPPKGET 54

```

```

RESULT 8
US-10-718-495-46
; Sequence 46, Application US/10718495
; GENERAL INFORMATION:
; APPLICANT: O'Keefe, Theresa L.
; TITLE OF INVENTION: USE OF HMGB FRAGMENTS AS
; FILE REFERENCE: 3258.1009-001
; CURRENT APPLICATION NUMBER: US/10/718,495
; CURRENT FILING DATE: 2003-11-12
; PRIOR APPLICATION NUMBER: 60/427,841
; PRIOR FILING DATE: 2002-11-20
; NUMBER OF SEQ ID NOS: 58
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 46
; LENGTH: 54
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-718-495-46

Query Match      86.8%; Score 249; DB 1; Length 54;
Best Local Similarity 88.7%; Pred. No. 8.9;
Matches 47; Conservative 1; Mismatches 5; Indels 0; Gaps 0;

Qy 1 PDASVNFSEFSKCSERWKTMSAKEKGKPFEDMAKADKARYEREMKTYIPPKGET 53
|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
Db 1 PDASVNFSEFSKCSERWKTMSAKEKGKPFEDMAKADKARYEREMKTYIPPKGET 53

RESULT 9
US-10-718-495-27
; Sequence 27, Application US/10718495
; GENERAL INFORMATION:
; APPLICANT: O'Keefe, Theresa L.
; TITLE OF INVENTION: USE OF HMGB FRAGMENTS AS
; FILE REFERENCE: 3258.1009-001
; CURRENT APPLICATION NUMBER: US/10/718,495
; CURRENT FILING DATE: 2003-11-12
; PRIOR APPLICATION NUMBER: 60/427,841
; PRIOR FILING DATE: 2002-11-20
; NUMBER OF SEQ ID NOS: 58
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 27
; LENGTH: 205
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-718-495-27

Query Match      86.8%; Score 249; DB 1; Length 205;
Best Local Similarity 88.7%; Pred. No. 8.9;
Matches 47; Conservative 1; Mismatches 5; Indels 0; Gaps 0;

Qy 1 PDASVNFSEFSKCSERWKTMSAKEKGKPFEDMAKADKARYEREMKTYIPPKGET 53
|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
Db 32 PDASVNFSEFSKCSERWKTMSAKEKGKPFEDMAKADKARYEREMKTYIPPKGET 84

RESULT 10
US-10-718-495-29
; Sequence 29, Application US/10718495
; GENERAL INFORMATION:
; APPLICANT: O'Keefe, Theresa L.
; TITLE OF INVENTION: USE OF HMGB FRAGMENTS AS
; FILE REFERENCE: 3258.1009-001
; CURRENT APPLICATION NUMBER: US/10/718,495
; CURRENT FILING DATE: 2003-11-12
; PRIOR APPLICATION NUMBER: 60/427,841
; PRIOR FILING DATE: 2002-11-20
; NUMBER OF SEQ ID NOS: 58

```



; SOFTWARE: FastSEQ for Windows Version 4.0  
; SEQ ID NO 29  
; LENGTH: 80  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-718-495-29

Query Match 85.7%; Score 246; DB 1; Length 80;  
Best Local Similarity 88.9%; Pred. No. 9.7;  
Matches 48; Conservative 2; Mismatches 4; Indels 0; Gaps 0;  
Qy 1 PDASVNFSEFSKCSERKWTSAKEKGKGFEDMAKADKARYEREMKTYIPPKGET 54  
Db 25 PDASVNFSEFSKCLVRGKTSKAKGQFEAMARADKARYEREMKTYIPPKGET 78

RESULT 11  
US-10-718-495-28  
; Sequence 28, Application US/10718495  
; GENERAL INFORMATION:  
; APPLICANT: O'Keefe, Theresa L.  
; TITLE OF INVENTION: USE OF HMGB FRAGMENTS AS  
; FILE REFERENCE: 3258.1009-001  
; CURRENT APPLICATION NUMBER: US/10718,495  
; PRIOR FILING DATE: 2003-11-12  
; PRIOR APPLICATION NUMBER: 60/427,841  
; NUMBER OF SEQ ID NOS: 58  
; SOFTWARE: FastSEQ for Windows Version 4.0  
; SEQ ID NO 28  
; LENGTH: 80  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-718-495-28

Query Match 77.0%; Score 221; DB 1; Length 80;  
Best Local Similarity 83.7%; Pred. No. 12;  
Matches 41; Conservative 2; Mismatches 6; Indels 0; Gaps 0;  
Qy 1 PDASVNFSEFSKCSERKWTSAKEKGKGFEDMAKADKARYEREMKTYIP 49  
Db 32 PDASVNFSEFSKCPETWKTIAKEKGKGFEDMPKADKARYEREMKTYIP 80

RESULT 12  
US-10-718-495-30  
; Sequence 30, Application US/10718495  
; GENERAL INFORMATION:  
; APPLICANT: O'Keefe, Theresa L.  
; TITLE OF INVENTION: USE OF HMGB FRAGMENTS AS  
; FILE REFERENCE: 3258.1009-001  
; CURRENT APPLICATION NUMBER: US/10718,495  
; PRIOR FILING DATE: 2003-11-12  
; PRIOR APPLICATION NUMBER: 60/427,841  
; NUMBER OF SEQ ID NOS: 58  
; SOFTWARE: FastSEQ for Windows Version 4.0  
; SEQ ID NO 30  
; LENGTH: 86  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-718-495-30

Query Match 74.9%; Score 215; DB 1; Length 86;  
Best Local Similarity 84.3%; Pred. No. 12;  
Matches 43; Conservative 1; Mismatches 7; Indels 0; Gaps 0;  
Qy 2 DASVNFSEFSKCSERKWTSAKEKGKGFEDMAKADKARYEREMKTYIPPKG 52  
Db 33 DASVNFSEFSKNCSEKRWKTSVKEKGKGFEDMAKADKARYEREMKTYIPYLG 83

Search completed: April 26, 2006, 13:12:19  
Job time : 0.0833333 secs

GenCore version 5.1.7  
Copyright (c) 1993 - 2006 Bioceleration Ltd.

OM protein - protein search, using sw model

Run on: April 26, 2006, 13:12:17 ; Search time 0.001 Seconds  
(without alignments)  
72.144 Million cell updates/sec

Title: US-10-718-495-44  
Perfect score: 289  
Sequence: 1 SDASVNFSEFSNKCSEKRWKT.....ADKTHYEROMKTYIPPKGET 54

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 12 seqs, 1336 residues  
Total number of hits satisfying chosen parameters: 12

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 12 summaries

Database : US10718495.pep.\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	289	100.0	54	1	US-10-718-495-44
2	289	100.0	211	1	US-10-718-495-25
3	283	91.0	54	1	US-10-718-495-43
4	263	91.0	216	1	US-10-718-495-24
5	250	86.5	54	1	US-10-718-495-45
6	250	86.5	188	1	US-10-718-495-26
7	247	85.5	54	1	US-10-718-495-47
8	238	82.4	54	1	US-10-718-495-46
9	238	82.4	205	1	US-10-718-495-27
10	222	76.8	80	1	US-10-718-495-29
11	214	74.0	80	1	US-10-718-495-28
12	203	70.2	86	1	US-10-718-495-30

## ALIGNMENTS

RESULT 1  
US-10-718-495-44  
; Sequence 44, Application US/10718495  
; GENERAL INFORMATION:  
; APPLICANT: O'Keefe, Theresa L.  
; TITLE OF INVENTION: USE OF HMGB FRAGMENTS AS  
; FILE REFERENCE: 3258.1009-001  
; CURRENT APPLICATION NUMBER: US/10718,495  
; PRIOR FILING DATE: 2003-11-12  
; PRIOR APPLICATION NUMBER: 60/427,841  
; NUMBER OF SEQ ID NOS: 58





```
; LENGTH: 80
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-718-495-28

Query Match      74.0%; Score 214; DB 1; Length 80;
Best Local Similarity 81.2%; Pred. No. 8.6;
Matches 39; Conservative 2; Mismatches 7; Indels 0; Gaps 0;

Qy  2 DASVNFSEFSKNCERWTKMSAKGKGFEDMAKADKTHYEROMKTYIP 49
    |||:||||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db  33 DASINFSEFSQKCPWTWTKTIAKEKGKGFEDMPKADKAHYEREMKTYIP 80

RESULT 12
US-10-718-495-30
; Sequence 30, Application US/10718495
; GENERAL INFORMATION:
; APPLICANT: O'Keefe, Theresa L.
; TITLE OF INVENTION: USE OF HMGB FRAGMENTS AS
; FILE REFERENCE: 3258.1009-001
; CURRENT APPLICATION NUMBER: US/10/718,495
; CURRENT FILING DATE: 2003-11-12
; PRIOR FILING DATE: 2002-11-20
; NUMBER OF SEQ ID NOS: 58
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 30
; LENGTH: 86
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-718-495-30

Query Match      70.2%; Score 203; DB 1; Length 86;
Best Local Similarity 78.4%; Pred. No. 10;
Matches 40; Conservative 2; Mismatches 9; Indels 0; Gaps 0;

Qy  2 DASVNFSEFSKNCERWTKMSAKGKGFEDMAKADKTHYEROMKTYIPPKG 52
    |||:||||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db  33 DASVSEFSKNCERWTKMSVKEKGKGFEDMAKADKACYEREMKIPLYLKG 83

Search completed: April 26, 2006, 13:12:19
Job time : 0.083333 secs

                                GenCore version 5.1.7
                                Copyright (c) 1993 - 2006 Bioceleration Ltd.

OM protein - protein search, using sw model

Run on:      April 26, 2006, 13:12:17 ; Search time 0.001 Seconds
              (without alignments)
              72.144 Million cell updates/sec

Title:
Perfect score: 288
Sequence: 1 PDASVNFSEFSKNCERWKA.....VDKADYEREMKTYIPPKGET 54

Scoring table: BLOSUM62
              Gapop 10.0 , Gapext 0.5

Searched:    12 seqs, 1336 residues

Total number of hits satisfying chosen parameters: 12

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
                  Maximum Match 100%
                  Listing first 12 summaries
```

```
Database : US10718495.pep:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result      Query      DB      ID      Description
No.      Score      Match      Length
-----
1      288      100.0      54      1      US-10-718-495-45      Sequence 45, Appl
2      274      95.1      189      1      US-10-718-495-26      Sequence 26, Appl
3      268      93.1      54      1      US-10-718-495-43      Sequence 43, Appl
4      268      93.1      216      1      US-10-718-495-24      Sequence 24, Appl
5      250      86.8      54      1      US-10-718-495-44      Sequence 44, Appl
6      250      86.8      211      1      US-10-718-495-25      Sequence 25, Appl
7      241      83.7      54      1      US-10-718-495-47      Sequence 47, Appl
8      236      81.9      54      1      US-10-718-495-46      Sequence 46, Appl
9      236      81.9      205      1      US-10-718-495-27      Sequence 27, Appl
10     227      78.8      80      1      US-10-718-495-29      Sequence 29, Appl
11     208      72.2      80      1      US-10-718-495-28      Sequence 28, Appl
12     203      70.5      86      1      US-10-718-495-30      Sequence 30, Appl

ALIGNMENTS

RESULT 1
US-10-718-495-45
; Sequence 45, Application US/10718495
; GENERAL INFORMATION:
; APPLICANT: O'Keefe, Theresa L.
; TITLE OF INVENTION: USE OF HMGB FRAGMENTS AS
; TITLE OF INVENTION: ANTI-INFLAMMATORY AGENTS
; FILE REFERENCE: 3258.1009-001
; CURRENT APPLICATION NUMBER: US/10/718,495
; CURRENT FILING DATE: 2003-11-12
; PRIOR FILING DATE: 2003-11-12
; PRIOR FILING DATE: 2002-11-20
; NUMBER OF SEQ ID NOS: 58
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 45
; LENGTH: 54
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-718-495-45

Query Match      100.0%; Score 288; DB 1; Length 54;
Best Local Similarity 100.0%; Pred. No. 0.71;
Matches 54; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy  1 PDASVNFSEFSKNCERWKA...VDKADYEREMKTYIPPKGET 54
    |||:||||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db  1 PDASVNFSEFSKNCERWKA...VDKADYEREMKTYIPPKGET 54

RESULT 2
US-10-718-495-26
; Sequence 26, Application US/10718495
; GENERAL INFORMATION:
; APPLICANT: O'Keefe, Theresa L.
; TITLE OF INVENTION: USE OF HMGB FRAGMENTS AS
; TITLE OF INVENTION: ANTI-INFLAMMATORY AGENTS
; FILE REFERENCE: 3258.1009-001
; CURRENT APPLICATION NUMBER: US/10/718,495
; CURRENT FILING DATE: 2003-11-12
; PRIOR FILING DATE: 2002-11-20
; NUMBER OF SEQ ID NOS: 58
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 26
```













Searched: 12 seqs, 1336 residues  
Total number of hits satisfying chosen parameters: 12  
Minimum DB seq length: 0  
Maximum DB seq length: 2000000000  
Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 12 summaries  
Database : US10718495.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	293	100.0	54	1 US-10-718-495-47	Sequence 47, Appl
2	260	88.7	80	1 US-10-718-495-28	Sequence 28, Appl
3	254	86.7	54	1 US-10-718-495-43	Sequence 43, Appl
4	254	86.7	216	1 US-10-718-495-24	Sequence 24, Appl
5	253	86.3	54	1 US-10-718-495-46	Sequence 46, Appl
6	253	86.3	205	1 US-10-718-495-27	Sequence 27, Appl
7	247	84.3	54	1 US-10-718-495-44	Sequence 44, Appl
8	247	84.3	211	1 US-10-718-495-25	Sequence 25, Appl
9	241	82.3	54	1 US-10-718-495-45	Sequence 45, Appl
10	236	80.5	188	1 US-10-718-495-26	Sequence 26, Appl
11	217	74.1	80	1 US-10-718-495-29	Sequence 29, Appl
12	187	63.8	86	1 US-10-718-495-30	Sequence 30, Appl

ALIGNMENTS

RESULT 1  
US-10-718-495-47  
; Sequence 47, Application US/10718495  
; GENERAL INFORMATION:  
; APPLICANT: O'Keefe, Theresa L.  
; TITLE OF INVENTION: USE OF HMGB FRAGMENTS AS  
; FILE REFERENCE: 3258.1009-001  
; CURRENT APPLICATION NUMBER: US/10718,495  
; CURRENT FILING DATE: 2003-11-12  
; PRIOR APPLICATION NUMBER: 60/427,841  
; PRIOR FILING DATE: 2002-11-20  
; NUMBER OF SEQ ID NOS: 58  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 47  
; LENGTH: 54  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-718-495-47  
Query Match 100.0%; Score 293; DB 1; Length 54;  
Best Local Similarity 100.0%; Pred. No. 0.37; Mismatches 0; Indels 0; Gaps 0;  
Matches 54; Conservative 0;  
Qy 1 PDASINFSEFSQKCPETWKTITIAKEKGFEDMAKADKAHYEREMKTYIPPKGET 54  
Db 1 PDASINFSEFSQKCPETWKTITIAKEKGFEDMAKADKAHYEREMKTYIPPKGET 54

RESULT 2  
US-10-718-495-28  
; Sequence 28, Application US/10718495  
; GENERAL INFORMATION:

; APPLICANT: O'Keefe, Theresa L.  
; TITLE OF INVENTION: USE OF HMGB FRAGMENTS AS  
; FILE REFERENCE: 3258.1009-001  
; CURRENT APPLICATION NUMBER: US/10718,495  
; CURRENT FILING DATE: 2003-11-12  
; PRIOR APPLICATION NUMBER: 60/427,841  
; PRIOR FILING DATE: 2002-11-20  
; NUMBER OF SEQ ID NOS: 58  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 28  
; LENGTH: 80  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-718-495-28  
Query Match 88.7%; Score 260; DB 1; Length 80;  
Best Local Similarity 98.0%; Pred. No. 3.1;  
Matches 48; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 PDASINFSEFSQKCPETWKTITIAKEKGFEDMAKADKAHYEREMKTYIP 49  
Db 32 PDASINFSEFSQKCPETWKTITIAKEKGFEDMPKADKAHYEREMKTYIP 80

RESULT 3

US-10-718-495-43  
; Sequence 43, Application US/10718495  
; GENERAL INFORMATION:  
; APPLICANT: O'Keefe, Theresa L.  
; TITLE OF INVENTION: USE OF HMGB FRAGMENTS AS  
; FILE REFERENCE: 3258.1009-001  
; CURRENT APPLICATION NUMBER: US/10718,495  
; CURRENT FILING DATE: 2003-11-12  
; PRIOR APPLICATION NUMBER: 60/427,841  
; PRIOR FILING DATE: 2002-11-20  
; NUMBER OF SEQ ID NOS: 58  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 43  
; LENGTH: 54  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-718-495-43  
Query Match 86.7%; Score 254; DB 1; Length 54;  
Best Local Similarity 87.0%; Pred. No. 4.3;  
Matches 47; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

Qy 1 PDASINFSEFSQKCPETWKTITIAKEKGFEDMAKADKAHYEREMKTYIPPKGET 54  
Db 1 PDASINFSEFSQKCCSERWKTMSAKEKGFEDMAKADKAHYEREMKTYIPPKGET 54

RESULT 4

US-10-718-495-24  
; Sequence 24, Application US/10718495  
; GENERAL INFORMATION:  
; APPLICANT: O'Keefe, Theresa L.  
; TITLE OF INVENTION: USE OF HMGB FRAGMENTS AS  
; FILE REFERENCE: 3258.1009-001  
; CURRENT APPLICATION NUMBER: US/10718,495  
; CURRENT FILING DATE: 2003-11-12  
; PRIOR APPLICATION NUMBER: 60/427,841  
; PRIOR FILING DATE: 2002-11-20  
; NUMBER OF SEQ ID NOS: 58  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 24  
; LENGTH: 216  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-718-495-24

```
; TITLE OF INVENTION: USE OF HMGB FRAGMENTS AS
; FILE REFERENCE: 3258.1009-001
; CURRENT APPLICATION NUMBER: US/10/718,495
; PRIOR FILING DATE: 2003-11-12
; PRIOR FILING DATE: 2002-11-20
; NUMBER OF SEQ ID NOS: 58
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 46
; LENGTH: 54
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-718-495-46

Query Match      86.7%; Score 254; DB 1; Length 216;
Best Local Similarity 87.0%; Pred. No. 4.3;
Matches 47; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

QY 1 PDASINSEFSQKCPETWKTITIAKEKGKGFEDMAKADKAHYEREMKTYIPPKGET 54
    |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
Db 32 PDASVNFSEFLKCCSERWKTMSAKEKGKGFEDMAKADKAHYEREMKTYIPPKGET 85

RESULT 5
US-10-718-495-46
; Sequence 46, Application US/10718495
; GENERAL INFORMATION:
; APPLICANT: O'Keefe, Theresa L.
; TITLE OF INVENTION: USE OF HMGB FRAGMENTS AS
; FILE REFERENCE: 3258.1009-001
; CURRENT APPLICATION NUMBER: US/10/718,495
; PRIOR FILING DATE: 2003-11-12
; PRIOR FILING DATE: 2002-11-20
; NUMBER OF SEQ ID NOS: 58
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 46
; LENGTH: 54
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-718-495-46

Query Match      86.3%; Score 253; DB 1; Length 54;
Best Local Similarity 86.8%; Pred. No. 4.5;
Matches 46; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

QY 1 PDASINSEFSQKCPETWKTITIAKEKGKGFEDMAKADKAHYEREMKTYIPPKGE 53
    |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
Db 1 PDASVNFSEFLKCCSETWKTITFAKEKGKGFEDMAKADKAHYEREMKTYIPPKGE 53

RESULT 6
US-10-718-495-27
; Sequence 27, Application US/10718495
; GENERAL INFORMATION:
; APPLICANT: O'Keefe, Theresa L.
; TITLE OF INVENTION: USE OF HMGB FRAGMENTS AS
; FILE REFERENCE: 3258.1009-001
; CURRENT APPLICATION NUMBER: US/10/718,495
; PRIOR FILING DATE: 2003-11-12
; PRIOR FILING DATE: 2002-11-20
; NUMBER OF SEQ ID NOS: 58
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 27
; LENGTH: 205
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-718-495-27

Query Match      86.3%; Score 253; DB 1; Length 205;
Best Local Similarity 86.8%; Pred. No. 4.5;
Matches 46; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

QY 1 PDASINSEFSQKCPETWKTITIAKEKGKGFEDMAKADKAHYEREMKTYIPPKGE 53
    |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
Db 32 PDASVNFSEFLKCCSETWKTITFAKEKGKGFEDMAKADKAHYEREMKTYIPPKGE 84

RESULT 7
US-10-718-495-44
; Sequence 44, Application US/10718495
; GENERAL INFORMATION:
; APPLICANT: O'Keefe, Theresa L.
```

```
; TITLE OF INVENTION: USE OF HMGB FRAGMENTS AS
; FILE REFERENCE: 3258.1009-001
; CURRENT APPLICATION NUMBER: US/10/718,495
; PRIOR FILING DATE: 2003-11-12
; PRIOR FILING DATE: 2002-11-20
; NUMBER OF SEQ ID NOS: 58
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 44
; LENGTH: 54
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-718-495-44

Query Match      84.3%; Score 247; DB 1; Length 54;
Best Local Similarity 84.9%; Pred. No. 6;
Matches 45; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

QY 2 DASINSEFSQKCPETWKTITIAKEKGKGFEDMAKADKAHYEREMKTYIPPKGET 54
    |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
Db 2 DASVNFSEFSNKCSEKRWKTSAKEKGKGFEDMAKADKTHYERQMKTYIPPKGET 54

RESULT 8
US-10-718-495-25
; Sequence 25, Application US/10718495
; GENERAL INFORMATION:
; APPLICANT: O'Keefe, Theresa L.
; TITLE OF INVENTION: USE OF HMGB FRAGMENTS AS
; FILE REFERENCE: 3258.1009-001
; CURRENT APPLICATION NUMBER: US/10/718,495
; PRIOR FILING DATE: 2003-11-12
; PRIOR FILING DATE: 2002-11-20
; NUMBER OF SEQ ID NOS: 58
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 25
; LENGTH: 211
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-718-495-25

Query Match      84.3%; Score 247; DB 1; Length 211;
Best Local Similarity 84.9%; Pred. No. 6;
Matches 45; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

QY 2 DASINSEFSQKCPETWKTITIAKEKGKGFEDMAKADKAHYEREMKTYIPPKGET 54
    |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
Db 33 DASVNFSEFSNKCSEKRWKTSAKEKGKGFEDMAKADKTHYERQMKTYIPPKGET 85

RESULT 9
US-10-718-495-45
; Sequence 45, Application US/10718495
; GENERAL INFORMATION:
; APPLICANT: O'Keefe, Theresa L.
; TITLE OF INVENTION: USE OF HMGB FRAGMENTS AS
; FILE REFERENCE: 3258.1009-001
; CURRENT APPLICATION NUMBER: US/10/718,495
; PRIOR FILING DATE: 2003-11-12
; PRIOR FILING DATE: 2002-11-20
; NUMBER OF SEQ ID NOS: 58
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 45
; LENGTH: 54
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-718-495-45
```

